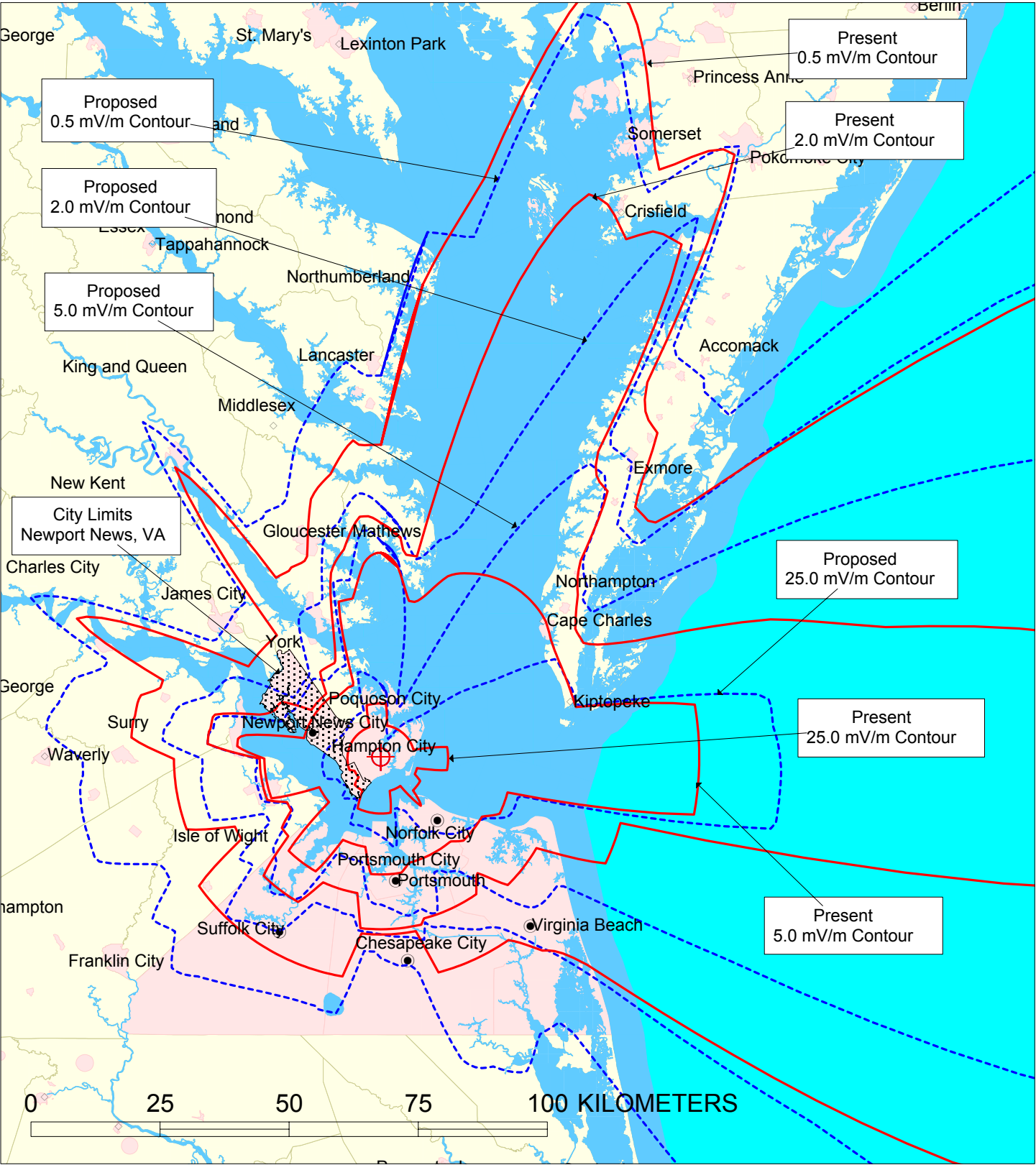
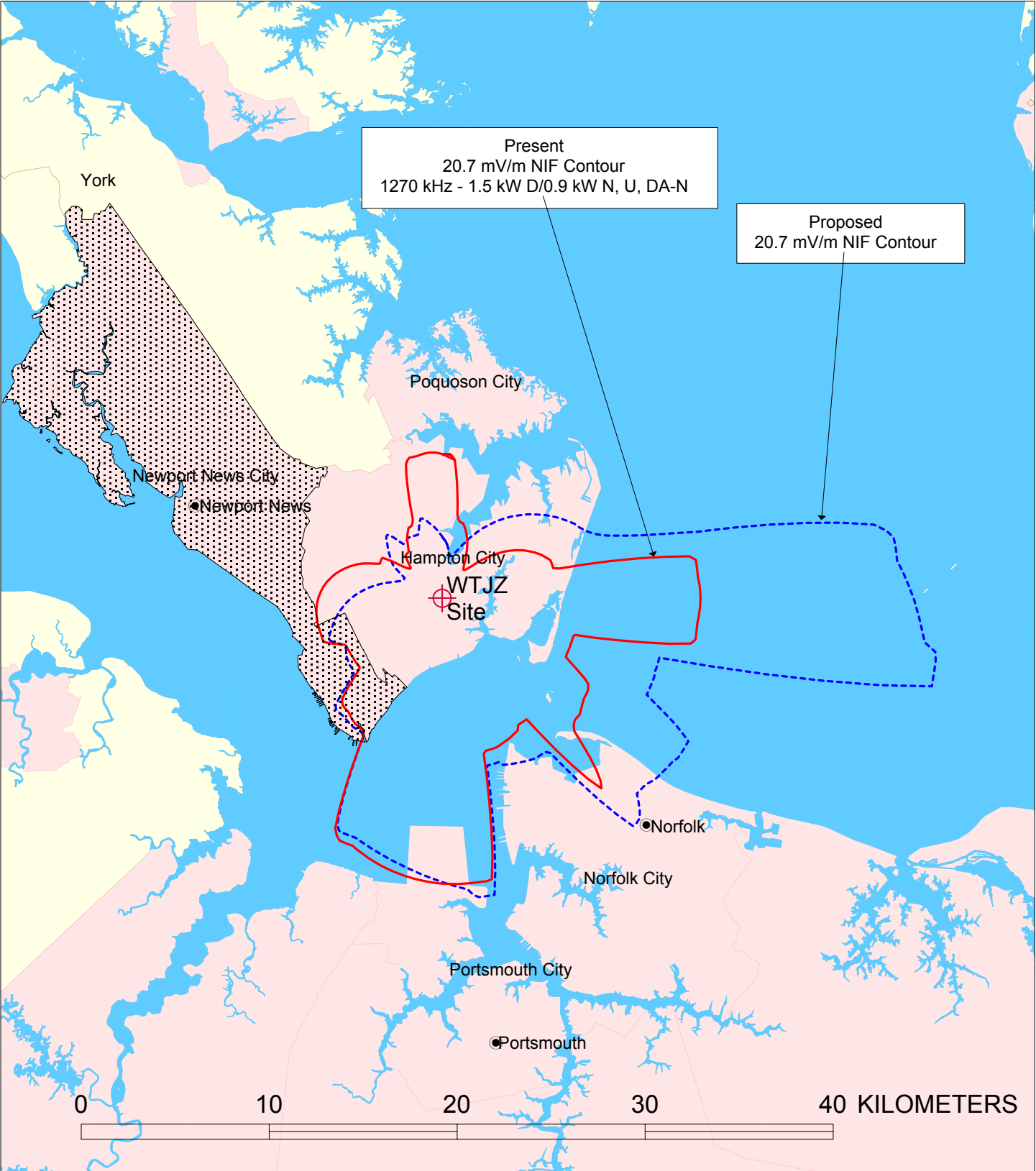


FIGURE 11

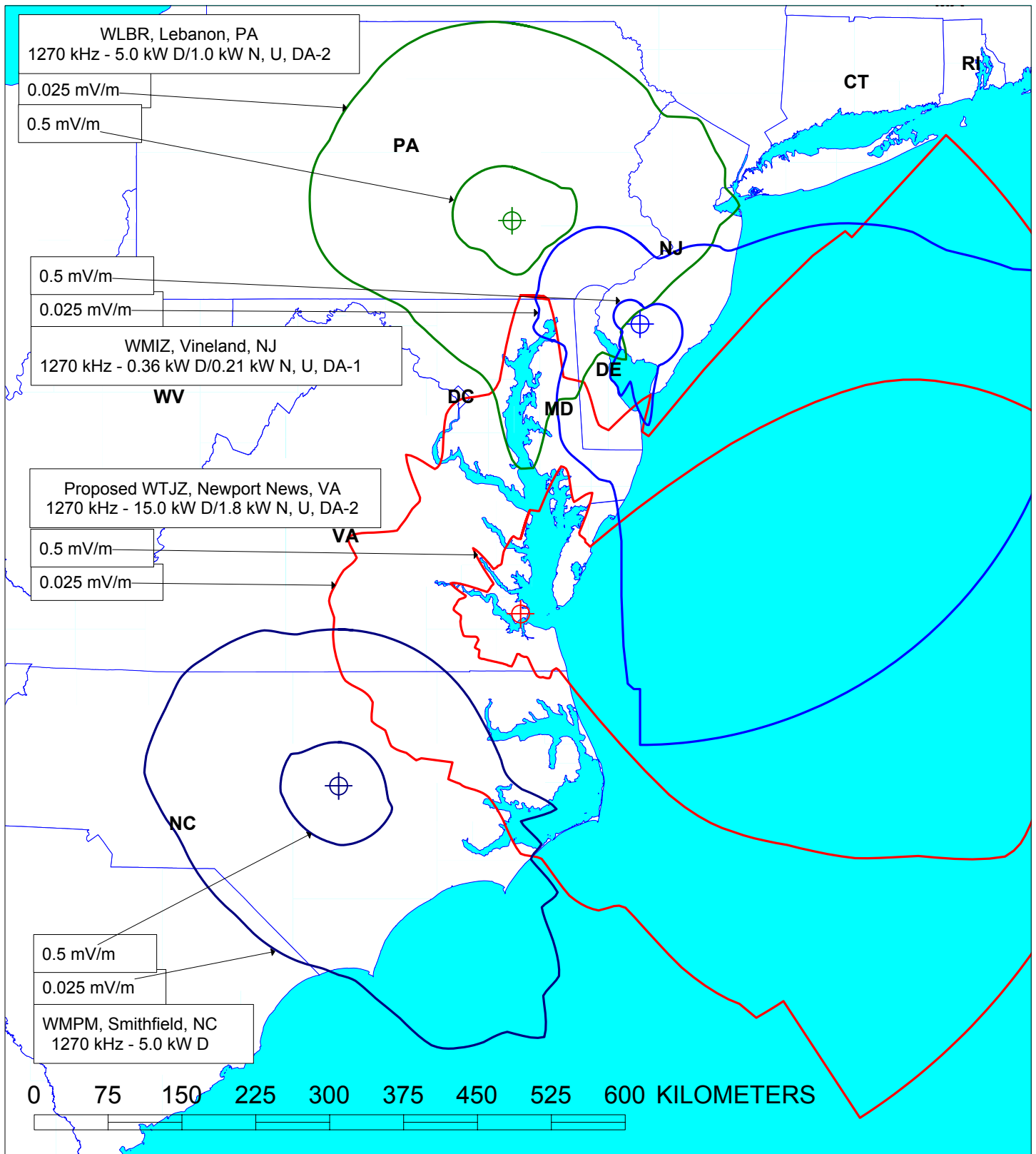


PRESENT AND PROPOSED DAYTIME CONTOURS  
WTJZ - NEWPORT NEWS, VIRGINIA  
1270 kHz - 15.0 kW D/1.8 kW N, U, DA-2  
JANUARY, 2004

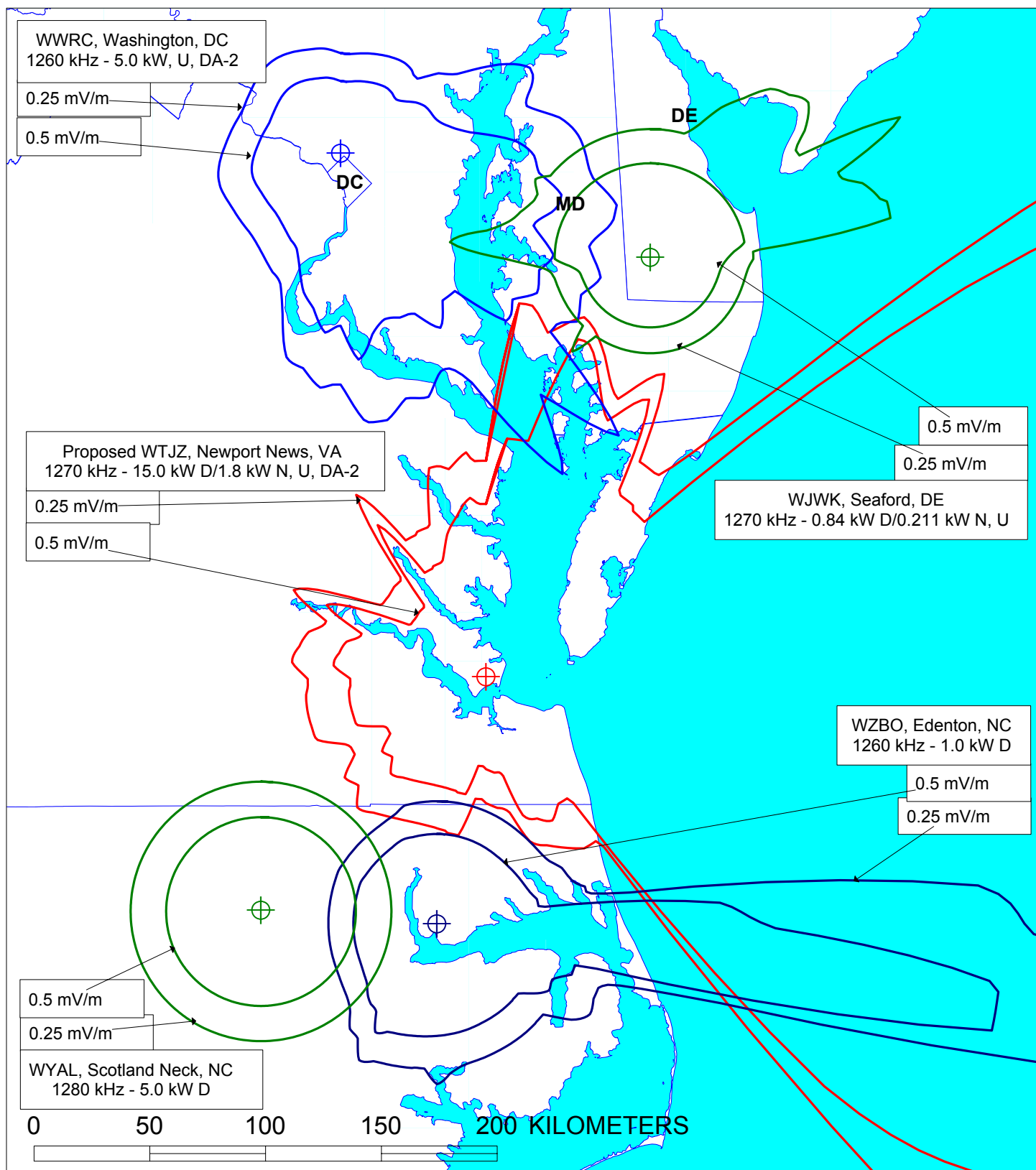
FIGURE 12



PRESENT AND PROPOSED  
NIGHTTIME INTERFERENCE-FREE SERVICE CONTOURS  
WTJZ - NEWPORT NEWS, VIRGINIA  
1270 kHz - 15.0 kW D/1.8 kW N, U, DA-2  
JANUARY, 2004



DAYTIME ALLOCATION STUDY  
WTJZ - NEWPORT NEWS, VIRGINIA  
1270 kHz - 15.0 kW D/1.8 kW N, U, DA-2  
JANUARY, 2004



DAYTIME ALLOCATION STUDY  
WTJZ - NEWPORT NEWS, VIRGINIA  
1270 kHz - 15.0 kW D/1.8 kW N, U, DA-2  
JANUARY, 2004

**TABULATION OF STATIONS CONSIDERED IN  
DAYTIME ALLOCATION STUDY  
WTJZ – NEWPORT NEWS, VIRGINIA  
1270 kHz – 15.0 kW D/1.8 kW N, U, DA-2**

Proposed WTJZ  
Newport News, Virginia  
1270 kHz – 15.0 kW D/1.8 kW N, U, DA-2

Site Coordinates: 37° 01' 52" North Latitude 76° 22' 00" West Longitude

Day RMS: 1149.0 mV/m at one kilometer

Measured Conductivity Data

<u>Radial (deg. T)</u>	<u>Source</u>
36, 90, 112, 125, 175, 238.5, 260, 314, 355	File # BL-20011130AGD
155, 175, 195, 215, 235	October, 2003 Measurements; See Appendix C

Licensed WTJZ  
Newport News, Virginia  
1270 kHz – 1.5 kW D/0.9 kW N, U, DA-N

Site Coordinates: 37° 01' 52" North Latitude 76° 22' 00" West Longitude

Day RMS: 374.5 mV/m at one kilometer

Measured Conductivity Data

<u>Radial (deg. T)</u>	<u>Source</u>
36, 90, 112, 125, 175, 238.5, 260, 314, 355	File # BL-20011130AGD
155, 175, 195, 215, 235	October, 2003 Measurements; See Appendix C

WWRC  
Washington, District of Columbia  
1260 kHz – 5.0 kW, U, DA-2

Site Coordinates: 38° 59' 59" North Latitude 77° 03' 27" West Longitude

Day RMS: 740.3 mV/m at one kilometer

WZBO  
Edenton, North Carolina  
1260 kHz – 1.0 kW D

Site Coordinates: 36° 05' 00" North Latitude 76° 36' 00" West Longitude

Day RMS: 305.78 mV/m at one kilometer

WLBR  
Lebanon, Pennsylvania  
1270 kHz – 5.0 kW D/1.0 kW N, U, DA-2

Site Coordinates: 40° 21' 35" North Latitude 76° 27' 30" West Longitude

Day RMS: 665.79 mV/m at one kilometer

WMIZ  
Vineland, New Jersey  
1270 kHz – 0.36 kW D/0.21 kW N, U, DA-1

Site Coordinates: 39° 29' 53" North Latitude 75° 04' 31" West Longitude

Day RMS: 203.47 mV/m at one kilometer

WMPM  
Smithfield, North Carolina  
1270 kHz – 5.0 kW D

Site Coordinates: 35° 31' 35" North Latitude 78° 20' 01" West Longitude

Day RMS: 320.26 mV/m at one kilometer

WJWK  
Seaford, Delaware  
1280 kHz – 0.84 kW D/0.211 kW N, U

Site Coordinates: 38° 36' 47" North Latitude 75° 35' 12" West Longitude

Day RMS: 339.50 mV/m at one kilometer

WYAL  
Scotland Neck, North Carolina  
1280 kHz – 5.0 kW D

Site Coordinates: 36° 08' 09" North Latitude 77° 26' 09" West Longitude

Day RMS: 297.73 mV/m at one kilometer

SUMMARY OF LIMITS TO WTJZPRO 1270 kHz NEWPORT NEWS, VA  
37° 01' 56" North Latitude/76° 22' 00" West Longitude

Call	City	St Co	Latitude (D-M-S)	Longitude (D-M-S)	Az (Deg)	Dist (km)	Min/Max (Deg)	E(Hor) (m/m)	E(Vert) (m/m)	E(Sky) (m/m)	Limit (m/m)	RSS (m/m)	Code
WLBR	LEBANON	PA US	N 40-21-35	W 076-27-30	178.74	370.2	20.41/32.00	498.58	448.59	.1654404	14.8430	14.843	LO
WBBC	CUMBERLAND	MD US	N 39-40-28	W 078-46-48	143.64	361.5	20.89/32.65	471.66	421.78	.1709288	14.4189	20.693	LO
50% Exclusion													
WXYT	DETROIT	MI US	N 42-27-58	W 083-15-00	133.51	843.0	7.79/13.92	1019.41	992.31	.0504335	10.0092		LO 8
WALS	TALLAHASSEE	FL US	N 30-25-38	W 084-19-46	42.93	1039.1	5.54/10.60	1082.29	1079.39	.0419253	9.0508	22.586	LO
WCGC	BELMONT	NC US	N 35-15-05	W 081-03-26	63.46	465.3	16.14/26.13	335.31	311.73	.1294990	8.0738	23.986	LO
WRLZ	EATONVILLE	FL US	N 28-34-03	W 081-25-38	25.34	1052.8	5.41/10.41	957.09	944.53	.0416842	7.8744	25.245	LO
WLIK	NEWPORT	TN US	N 35-57-49	W 083-12-31	76.99	622.9	11.61/19.58	473.79	446.02	.0870394	7.7642	26.412	LO
WXYT	DETROIT	MI US	N 42-01-39	W 083-20-42	130.60	816.1	8.16/14.48	651.27	642.06	.0535834	6.8808	27.294	CP
25% Exclusion													
WMIZ	VINELAND	NJ US	N 39-29-53	W 075-04-31	202.75	296.6	25.22/38.19	169.98	127.19	.2112988	5.3751	27.818	LO
WMRC	WASHINGTON	DC US	N 38-59-59	W 077-03-27	164.33	227.1	31.85/45.94	1468.48	972.37	.2691376	5.2340	38.306	LO
WSPR	SPRINGFIELD	MA US	N 42-05-24	W 072-36-11	211.05	648.3	11.05/18.77	317.94	312.53	.0765071	4.7822		LO 8
WJCO	MARYSVILLE	OH US	N 40-14-46	W 083-19-50	118.37	702.3	10.00/17.20	343.28	334.49	.0697179	4.6639	28.688	LO
WHLI	NIAGARA FALLS	NY US	N 42-44-41	W 078-53-13	160.48	670.6	10.60/18.10	345.77	299.05	.0721810	4.3172	29.011	LO
WHGS	HAMPTON	SC US	N 32-50-39	W 081-07-28	41.63	636.1	11.31/19.15	168.00	158.36	.0863727	2.7355	29.140	LO
CJTN	TRENTON	ON CA	N 44-02-41	W 077-34-47	172.11	786.6	8.60/15.12	259.20	248.14	.0548163	2.7204	29.266	O
KESS	FORT WORTH	TX US	N 32-43-36	W 097-11-30	70.01	1954.6	.00/ 2.56	1010.53	1010.53	.0133880	2.7058	29.391	CP
KESS	FORT WORTH	TX US	N 32-43-36	W 097-11-30	70.01	1954.6	.00/ 2.56	1010.51	1010.51	.0133880	2.7058	29.391	LO 8
WCHV	CHARLOTTESVILLE	VA US	N 38-06-52	W 078-27-18	122.57	220.0	32.70/46.87	882.23	487.19	.2767769	2.6969	29.515	LO

- indicates lower adjacent frequency  
+ indicates upper adjacent frequency

SUMMARY OF LIMITS TO WMIZ 1270 kHz VINELAND, NJ  
39° 29' 53" North Latitude/75° 04' 31" West Longitude

Call	City	St Co	Latitude (D-M-S)	Longitude (D-M-S)	Az (Deg)	Dist (km)	Min/Max (Deg)	E(Hor) (m/m)	E(Vert) (m/m)	E(Sky) (m/m)	Limit (m/m)	RSS (m/m)	Code
WLBR	LEBANON	PA US	N 40-21-35	W 076-27-30	128.65	151.9	43.10/57.20	480.34	278.44	344.5085	19.1849	19.185	L0
WBCB	CUMBERLAND	MD US	N 39-40-28	W 078-46-48	92.35	318.1	23.63/36.20	343.16	297.78	1933949	11.5178	22.377	L0
WYTT	DETROIT	MI US	N 42-27-58	W 083-15-00	112.96	761.0	8.99/15.71	867.50	841.92	0569262	9.5855		L0 8
WSPR	SPRINGFIELD	MA US	N 42-05-24	W 072-36-11	216.65	355.5	21.24/33.10	288.36	274.46	1669944	9.1668		L0 8
WTJZPRO	NEAPORT NEWS	VA US	N 37-01-52	W 076-22-00	21.95	296.6	25.22/38.19	114.84	130.12	2112987	5.4990	23.043	
WLK	NEAPORT	TN US	N 35-57-49	W 083-12-31	58.77	815.7	8.17/14.49	473.68	459.95	0564744	5.1950	23.621	L0
WLZ	EATONVILLE	FL US	N 28-34-03	W 081-25-38	23.98	1348.1	3.06/ 7.01	925.07	921.18	0269651	4.9679	24.138	L0
WLLS	TALLAHASSEE	FL US	N 30-25-38	W 084-19-46	37.33	1313.1	3.29/ 7.35	883.81	883.80	0275581	4.8712	24.624	L0
WSPR	SPRINGFIELD	MA US	N 42-06-06	W 072-37-23	216.30	355.5	21.24/33.10	153.37	139.27	1669942	4.6499		CP 8
CJTN	TRENTON	ON CA	N 44-02-41	W 077-34-47	156.82	546.5	13.52/22.38	268.28	241.16	0923912	4.4562	25.024	0
WGGC	BELMONT	NC US	N 35-15-05	W 081-03-26	46.44	708.5	9.89/17.04	297.07	289.06	0707915	4.0925	25.357	L0
WJCO	MARYSVILLE	OH US	N 40-14-46	W 083-19-50	94.07	709.1	9.87/17.02	301.37	293.72	0662247	3.8902	25.653	L0
WYTT	DETROIT	MI US	N 42-01-39	W 083-20-42	109.25	750.7	9.16/15.96	212.01	322.67	0586795	3.7869	25.931	CP
WHL	NIAGARA FALLS	NY US	N 42-44-41	W 078-53-13	137.24	481.8	15.54/25.29	132.93	152.80	1127288	3.4449	26.159	L0
WDLA	WALTON	NY US	N 42-08-08	W 075-04-52	179.90	293.3	25.48/38.51	92.18	79.19	2061778	3.2854	26.285	L0
WADO	NEW YORK	NY US	N 40-49-36	W 074-04-32	210.22	170.4	39.80/54.12	846.78	398.63	3224524	2.5708	26.405	L0
WTJZ	NEAPORT NEWS	VA US	N 37-01-52	W 076-22-00	21.95	296.6	25.22/38.19	123.08	59.57	2112987	2.5172		L0

- indicates lower adjacent frequency  
+ indicates upper adjacent frequency

SUMMARY OF LIMITS TO WXYT 1270 kHz DETROIT, MI  
42° 27' 58" North Latitude/83° 15' 00" West Longitude

Call	City	St Co	Latitude (D-M-S)	Longitude (D-M-S)	Az (Deg)	Dist (km)	Min/Max (Deg)	E(Hor) (mV/m)	E(Vert) (mV/m)	E(Sky) (mV/m)	Limit (mV/m)	RSS (mV/m)	Code
WXYT	DETROIT	MI US	N 42-01-39	W 083-20-42	9.08	49.4	70.94/78.21	7255.50	1238.82	.4459636	110.4938		CP 8
- WMMK	CLEVELAND	OH US	N 41-17-10	W 081-38-34	315.13	186.9	37.18/51.55	1082.50	390.78	.2987911	2.3352	2.335	LO
WGBF	ROCK ISLAND	IL US	N 41-29-40	W 090-28-00	77.33	606.0	11.99/20.15	174.60	121.58	.0800065	1.9454	3.039	LO
50% Exclusion													
WAGO	MADISON	IN US	N 38-44-28	W 085-21-41	22.60	450.9	16.69/26.90	64.30	64.20	.1260388	1.6182		LO 6
WSPR	SPRINGFIELD	MA US	N 42-05-24	W 072-36-11	276.31	876.4	7.35/13.27	155.27	160.50	.0421629	1.3534		LO 8
WAKT	CHARLEVOIX	MI US	N 45-16-22	W 085-15-08	152.08	350.9	21.51/33.46	51.79	41.72	.1585062	1.3226	3.315	LO
WAIN	COLUMBIA	KY US	N 37-06-36	W 085-16-42	15.58	620.2	11.67/19.67	80.99	78.41	.0822284	1.2896		LO 6
WSPR	SPRINGFIELD	MA US	N 42-06-06	W 072-37-23	276.23	874.6	7.37/13.31	153.37	151.60	.0423031	1.2827		CP 8
WACA	GARY	IN US	N 41-31-38	W 087-22-36	71.60	356.6	21.17/33.02	43.25	39.00	.1638445	1.2779	3.552	LO
WESS	FORT WORTH	TX US	N 32-43-36	W 097-11-30	44.49	1633.6	1.35/ 4.63	366.90	366.42	.0172995	1.2678	3.772	CP
WESS	FORT WORTH	TX US	N 32-43-36	W 097-11-30	44.49	1633.6	1.35/ 4.63	366.88	366.40	.0172995	1.2677		LO 8
+ WDNW	DEFIANCE	OH US	N 41-16-44	W 084-23-50	35.36	162.6	41.14/55.39	300.43	193.46	.3262479	1.2623	3.978	LO
- WNDP	INDIANAPOLIS	IN US	N 39-51-54	W 086-03-43	38.25	372.9	20.26/31.81	672.27	398.58	.1581579	1.2608	4.173	LO
WSPR	SPRINGFIELD	MA US	N 42-05-55	W 072-37-45	276.25	874.1	7.38/13.31	148.24	142.34	.0423463	1.2055	4.343	CP
WDLA	WALTON	NY US	N 42-08-08	W 075-04-52	275.88	672.6	10.56/18.04	92.18	89.81	.0659774	1.1851		LO 6
WHS	HAMPTON	SC US	N 32-50-39	W 081-07-28	350.72	1086.0	5.10/ 9.96	168.00	165.99	.0355141	1.1790	4.500	LO
WYXC	CARTERSVILLE	GA US	N 34-12-34	W 084-47-49	7.89	927.9	6.72/12.34	121.95	120.80	.0454747	1.0987		LO 6
25% Exclusion													
WTJZPRO	NEWPORT NEWS	VA US	N 37-01-52	W 076-22-00	317.92	843.0	7.79/13.92	114.56	108.06	.0504336	1.0900	4.631	LO
WMTZ	VINELAND	NJ US	N 39-29-53	W 075-04-31	298.33	761.0	8.99/15.71	102.11	95.62	.0569263	1.0886	4.757	LO

- indicates lower adjacent frequency  
+ indicates upper adjacent frequency

SUMMARY OF LIMITS TO WSPR 1270 kHz SPRINGFIELD, MA  
42° 05' 24" North Latitude/72° 36' 11" West Longitude

Call	City	St Co	Latitude (D-M-S)	Longitude (D-M-S)	Az (Deg)	Dist (km)	Min/Max (Deg)	E(Hor) (mV/m)	E(Vert) (mV/m)	E(Sky) (mV/m)	Limit (mV/m)	RSS (mV/m)	Code
WTSN	DOVER	NH US	N 43-11-01	W 070-51-14	230.23	187.8	37.04/51.41	236.95	121.06	.2921413	7.0736	7.074	LO
WXTT	DETROIT	MI US	N 42-27-58	W 083-15-00	89.14	876.4	7.35/13.27	759.08	746.70	.0421628	6.2966		LO 8
WDLA	WALTON	NY US	N 42-08-08	W 075-04-52	90.59	204.5	34.68/48.98	92.18	69.47	.2775395	3.8562		LO 6
50% Exclusion													
WLRL	EATONVILLE	FL US	N 28-34-03	W 081-25-38	25.56	1701.1	1.00/ 4.16	962.11	961.68	.0170366	3.2767	7.796	LO
WXTT	DETROIT	MI US	N 42-01-39	W 083-20-42	85.95	886.3	7.23/13.09	374.79	361.97	.0417958	3.0258	8.362	CP
CJTN	TRENTON	ON CA	N 44-02-41	W 077-34-47	116.55	458.9	16.38/26.47	144.11	128.06	.1132063	2.8995	8.851	O
WLNS	TALLAHASSEE	FL US	N 30-25-38	W 084-19-46	35.69	1666.1	1.18/ 4.40	825.60	826.08	.0171020	2.8255	9.291	LO
WCBG	CUMBERLAND	MD US	N 39-40-28	W 078-46-48	60.65	584.4	12.52/20.92	166.89	163.53	.0859642	2.8116	9.707	LO
CFGT	ALMA	OC CA	N 48-31-46	W 071-36-31	186.56	720.2	9.68/16.73	288.90	279.30	.0499343	2.7895	10.100	O
WLJK	NEWPORT	TN US	N 35-57-49	W 083-12-31	50.11	1140.2	4.62/ 9.26	440.20	436.00	.0306970	2.6768	10.448	LO
WLBR	LEBANON	PA US	N 40-21-35	W 076-27-30	57.91	375.4	20.13/31.63	86.47	85.85	.1550444	2.6622	10.782	LO
25% Exclusion													
WILD	NIAGARA FALLS	NY US	N 42-44-41	W 078-53-13	95.90	520.8	14.27/23.47	143.19	130.58	.0967644	2.5271	11.074	LO
WTJZPRO	NEWPORT NEWS	VA US	N 37-01-52	W 076-22-00	28.65	648.3	11.05/18.77	162.21	163.77	.0765070	2.5059	11.354	LO
WLIZ	VINELAND	NJ US	N 39-20-53	W 075-04-31	35.03	355.5	21.24/33.10	82.08	67.18	.1669943	2.2438	11.574	LO
WBCB	BELMONT	NC US	N 35-15-05	W 081-03-26	41.41	1055.8	5.38/10.37	282.00	279.74	.0356423	1.9941	11.745	LO
WJCO	MARYSVILLE	OH US	N 40-14-46	W 083-19-50	73.64	920.4	6.81/12.48	236.79	234.11	.0408208	1.9113	11.899	LO
CJCB	SYDNEY	NS CA	N 46-10-50	W 060-11-30	249.76	1088.3	5.08/ 9.93	361.27	359.88	.0248388	1.7878	12.033	O
KESS	FORT WORTH	TX US	N 32-43-36	W 097-11-30	57.19	2396.8	.00/ .28	724.13	724.13	.0077532	1.1229	12.085	CP
KESS	FORT WORTH	TX US	N 32-43-36	W 097-11-30	57.19	2396.8	.00/ .28	724.13	724.13	.0077532	1.1229	12.085	CP
WTJZ	NEWPORT NEWS	VA US	N 37-01-52	W 076-22-00	28.65	648.3	11.05/18.77	82.59	71.90	.0765070	1.1002	12.135	LO

- indicates lower adjacent frequency  
+ indicates upper adjacent frequency

SUMMARY OF LIMITS TO WCBC 1270 kHz CUMBERLAND, MD  
39° 40' 28" North Latitude/78° 46' 48" West Longitude

Call	City	St Co	Latitude (D-M-S)	Longitude (D-M-S)	Az (Deg)	Dist (km)	Min/Max (Deg)	E(Hor) (mV/m)	E(Vert) (mV/m)	E(Sky) (mV/m)	Limit (mV/m)	RSS (mV/m)	Code
WXYT	DETROIT	MI US	N 42-27-58	W 083-15-00	128.15	486.5	15.38/25.06	977.99	883.84	1119119	19.7824	14.176	LO 8
WXYT	DETROIT	MI US	N 42-01-39	W 083-20-42	122.76	464.5	16.17/26.17	570.26	591.48	1198391	14.1764	14.176	LO 8
WLBK	LEBANON	PA US	N 40-21-35	W 076-27-30	269.67	211.9	33.71/47.95	336.25	244.16	2789518	13.6216	19.660	LO
50% Exclusion													
WJCO	MARYSVILLE	OH US	N 40-14-46	W 083-19-50	97.84	393.0	19.23/30.41	310.28	281.28	1513526	8.5146	21.425	LO
WLIK	NEWPORT	TN US	N 35-57-49	W 083-12-31	41.97	566.9	12.97/21.57	396.32	366.86	0973162	7.1403	22.583	LO
WHLI	NIAGARA FALLS	NY US	N 42-44-41	W 078-53-13	178.46	341.5	22.08/34.21	346.11	175.34	1739620	6.1007	23.393	LO
25% Exclusion													
WQGC	BELMONT	NC US	N 35-15-05	W 081-03-26	21.54	531.3	13.96/23.02	207.36	197.52	1070266	4.2280	23.772	LO
WTSN	DOVER	NH US	N 43-11-01	W 070-51-14	242.11	766.9	8.90/15.57	367.10	350.08	0549128	3.8448	24.081	LO
WRLZ	EATONVILLE	FL US	N 28-34-03	W 081-25-38	10.43	1258.7	3.69/ 7.91	593.05	589.46	0303372	3.5765	24.345	LO
CJTN	TRENTON	ON CA	N 44-02-41	W 077-34-47	191.96	496.0	15.06/24.60	185.36	160.29	1061557	3.4032	24.582	LO
WJLS	TALLAHASSEE	FL US	N 30-25-38	W 084-19-46	24.61	1145.0	4.58/ 9.20	452.58	467.85	0348570	3.2615	24.797	LO
WSPR	SPRINGFIELD	MA US	N 42-05-24	W 072-36-11	244.70	584.4	12.52/20.92	171.62	180.68	0859642	3.1064	24.962	LO
WTJZPRO	NEWPORT NEWS	VA US	N 37-01-52	W 076-22-00	325.14	361.5	20.89/32.65	128.98	83.80	1709289	2.8648	24.962	LO
WSPR	SPRINGFIELD	MA US	N 42-06-06	W 072-37-23	244.51	583.5	12.54/20.95	153.37	148.31	0861546	2.5556	25.078	LO
WSPR	SPRINGFIELD	MA US	N 42-05-55	W 072-37-45	244.51	582.9	12.55/20.97	176.09	139.53	0862912	2.4080	25.078	LO
WJLA	WALTON	TX US	N 42-08-08	W 075-04-52	229.86	414.1	18.23/29.05	92.18	85.29	1385328	2.3632	25.185	LO
KESS	FORT WORTH	TX US	N 32-43-36	W 097-11-30	59.66	1819.1	42/ 3.38	789.34	789.25	0147115	2.3222	25.185	LO
KESS	FORT WORTH	TX US	N 32-43-36	W 097-11-30	59.66	1819.1	42/ 3.38	789.34	789.24	0147115	2.3222	25.185	LO
WTJZ	NEWPORT NEWS	VA US	N 37-01-52	W 076-22-00	325.14	361.5	20.89/32.65	105.47	63.91	1709289	2.1849	25.280	LO

- indicates lower adjacent frequency  
+ indicates upper adjacent frequency

SUMMARY OF LIMITS TO WTSN 1270 kHz DOVER, NH  
43° 11' 01" North Latitude/70° 51' 14" West Longitude

Call	City	St Co	Latitude (D-M-S)	Longitude (D-M-S)	Az (Deg)	Dist (km)	Min/Max (Deg)	E(Hor) (m/m)	E(Vert) (m/m)	E(Sky) (m/m)	Limit (m/m)	RSS (m/m)	Code
WSPR	SPRINGFIELD	MA US	N 42-05-24	W 072-36-11	49.05	187.8	37.04/51.41	224.82	211.54	.2921413	12.3598	9.3152	LO 8
WSPR	SPRINGFIELD	MA US	N 42-05-55	W 072-37-45	49.68	188.8	36.89/51.26	186.01	160.04	.2910322	9.3152		CP
WSPR	SPRINGFIELD	MA US	N 42-06-06	W 072-37-23	49.66	188.2	36.98/51.35	153.37	113.94	.2916720	6.6467		CP 8
WXYT	DETROIT	MI US	N 42-27-58	W 083-15-00	81.28	1013.2	5.80/10.98	755.21	747.61	.0313594	4.6889		LO 8
WMI	BOSTON	MA US	N 42-16-28	W 071-02-33	8.60	102.3	54.37/66.60	1474.10	506.96	.3899363	3.9536	10.119	LO
CFGT	ALMA	QC CA	N 48-31-46	W 071-36-31	174.11	597.3	12.20/20.45	308.74	292.80	.0663098	3.8831	10.839	O
WXYT	DETROIT	MI US	N 42-01-39	W 083-20-42	78.62	1029.4	5.64/10.74	492.04	494.45	.0308472	3.0505	11.260	CP
WRLZ	EATONVILLE	FL US	N 28-34-03	W 081-25-38	27.39	1880.3	.14/ 3.00	1004.20	1004.19	.0137530	2.7621	11.594	LO
WDLA	WALTON	NY US	N 42-08-08	W 075-04-52	69.94	364.7	20.71/32.40	92.18	83.39	.1545739	2.5779		LO 6
CJCB	SYDNEY	NS CA	N 46-10-50	W 060-11-30	252.24	905.5	6.99/12.74	358.79	355.95	.0341125	2.4284	11.845	O
WJLS	TALLAHASSEE	FL US	N 30-25-38	W 084-19-46	36.34	1852.8	.27/ 3.17	848.79	848.95	.0135756	2.3050	12.068	LO
CJTN	TRENTON	ON CA	N 44-02-41	W 077-34-47	97.70	549.7	13.43/22.25	136.06	129.36	.0850269	2.1999	12.266	O
WTJZPRO	NEWPORT NEWS	VA US	N 37-01-52	W 076-22-00	32.68	828.9	7.98/14.21	194.92	194.66	.0508644	1.9803	12.425	O
WLIK	NEWPORT	TN US	N 35-57-49	W 083-12-31	49.01	1326.5	3.20/ 7.22	434.60	432.60	.0226213	1.9572	12.579	LO
WMIZ	VINELAND	NJ US	N 39-29-53	W 075-04-31	39.32	540.4	13.70/22.63	94.82	86.45	.0949627	1.6420	12.685	LO
WBOC	CUMBERLAND	MD US	N 39-40-28	W 078-46-48	56.86	766.9	8.90/15.57	144.23	143.21	.0549127	1.5728	12.782	LO
WOGC	BELMONT	NC US	N 35-15-05	W 081-03-26	41.76	1243.4	3.80/ 8.07	283.12	281.99	.0259622	1.4642	12.866	LO
WJDO	MARYSVILLE	OH US	N 40-14-46	W 083-19-50	68.40	1084.7	5.11/ 9.97	216.28	214.97	.0294562	1.2664	13.139	LO
WJEM	FITCHBURG	MA US	N 42-35-40	W 071-50-12	50.38	103.5	54.06/66.35	450.84	150.66	.3876387	1.1680	13.191	LO
WLBK	LEBANON	PA US	N 40-21-35	W 076-27-30	54.11	560.7	13.13/21.81	63.99	64.15	.0886734	1.1376	13.240	LO
YVOU	EL VIGIA	VE	N 8-35-00	W 071-40-00	1.04	3848.2	.00/ .00	978.60	978.60	.0048863	.9564	13.274	O
YVTR	TUCUPITA	VE	N 9-06-00	W 062-06-00	348.83	3884.2	.00/ .00	978.60	978.60	.0047233	.9244	13.306	O
WILD	NIAGARA FALLS	NY US	N 42-44-41	W 078-53-13	83.00	655.2	10.91/18.56	69.37	67.09	.0664400	.8916	13.336	LO
KESS	FORT WORTH	TX US	N 32-43-36	W 097-11-30	55.49	2570.3	.00/ .00	677.47	677.47	.0063813	.8646	13.364	CP
KESS	FORT WORTH	TX US	N 32-43-36	W 097-11-30	55.49	2570.3	.00/ .00	677.47	677.47	.0063813	.8646	13.364	CP
WADO	NEW YORK	NY US	N 40-49-36	W 074-04-32	44.38	373.5	20.23/31.76	386.08	268.06	.1528857	.8196	13.389	LO
PJA 8	R ANTILLIANA	NA	N 12-28-00	W 069-57-00	358.71	3416.7	.00/ .00	692.00	692.00	.0056523	.7823	13.412	O
WHGS	HAMPTON	SC US	N 32-50-39	W 081-07-28	34.98	1457.5	2.35/ 6.02	168.00	167.57	.0203957	.6836	13.429	LO
HQIM2	GUAYAGUIL 2	EC S	2-12-00	W 079-54-00	9.15	5127.0	.00/ .00	978.60	978.60	.0034282	.6710	13.446	O
WMI	BAXTER	MN US	N 46-17-55	W 094-16-42	92.15	1875.0	.16/ 3.03	462.35	462.35	.0072366	.6692	13.463	LO
WTJZ	NEWPORT NEWS	VA US	N 37-01-52	W 076-22-00	32.68	828.9	7.98/14.21	62.55	59.26	.0508644	.6028	13.476	LO

- indicates lower adjacent frequency  
+ indicates upper adjacent frequency

SUMMARY OF LIMITS TO WCGC 1270 kHz BELMONT, NC  
35° 5' 05" North Latitude/81° 3' 26" West Longitude

Call	City	St Co	Latitude (D-M-S)	Longitude (D-M-S)	Az (Deg)	Dist (km)	Min/Max (Deg)	E(Hor) (mV/m)	E(Vert) (mV/m)	E(Sky) (mV/m)	Limit (mV/m)	RSS (mV/m)	Code
WALS	TALLAHASSEE	FL US	N 30-25-38	W 084-19-46	28.80	617.3	11.73/19.76	587.66	628.38	.0920283	11.5658	11.566	L0
WYTT	DETROIT	MI US	N 42-27-58	W 083-15-00	165.99	824.3	8.05/14.30	1062.96	1029.40	.0541209	11.1423		L0 8
WLTK	NEWPORT	TN US	N 35-57-49	W 083-12-31	111.53	210.0	33.95/48.21	311.62	181.17	.2886112	10.4574	15.592	L0
WCBG	CUMBERLAND	MD US	N 39-40-28	W 078-46-48	202.93	531.3	13.96/23.02	463.48	440.71	.1070268	9.4336	18.224	L0
50% Exclusion													
WYTT	DETROIT	MI US	N 42-01-39	W 083-20-42	164.50	779.1	8.71/15.29	748.94	722.32	.0595863	8.6080	20.155	CP
WTJZ	NEWPORT NEWS	VA US	N 37-01-52	W 076-22-00	246.23	465.3	16.14/26.13	319.26	302.05	.1294990	7.8230	21.620	L0
WTJZPRO	NEWPORT NEWS	VA US	N 37-01-52	W 076-22-00	246.23	465.3	16.14/26.13	316.38	299.27	.1294990	7.7511	22.967	
WLBK	LEBANON	PA US	N 40-21-35	W 076-27-30	216.86	696.8	10.10/17.35	485.24	471.47	.0719640	6.7858	23.949	L0
WUOD	MARYSVILLE	OH US	N 40-14-46	W 083-19-50	159.50	590.2	12.37/20.71	358.67	345.24	.0921979	6.3662	24.780	L0
25% Exclusion													
WRLZ	EATONVILLE	FL US	N 28-34-03	W 081-25-38	2.59	744.0	9.27/16.12	410.23	395.25	.0713254	5.6383	25.414	L0
WNGS	HAMPTON	SC US	N 32-50-39	W 081-07-28	1.31	267.7	27.65/41.14	168.00	118.19	.2378419	5.6222	26.028	L0
WGBF	ROCK ISLAND	IL US	N 41-29-40	W 090-28-00	127.23	1073.4	5.22/10.13	758.35	735.00	.0355290	5.2228	26.547	L0
WJJC	COMMERCE	GA US	N 34-12-57	W 083-26-09	61.41	246.0	29.78/43.61	117.95	95.44	.2556524	4.8801		L0 6
KESS	FORT WORTH	TX US	N 32-43-36	W 097-11-30	74.85	1512.0	2.03/ 5.57	1078.07	1075.33	.0223306	4.8025	26.978	CP
KESS	FORT WORTH	TX US	N 32-43-36	W 097-11-30	74.85	1512.0	2.03/ 5.57	1078.03	1075.28	.0223306	4.8023		L0 8
WEIC	CHARLESTON	IL US	N 39-30-18	W 088-12-54	124.57	789.3	8.55/15.06	363.44	357.29	.0604116	4.3169	27.321	L0
WYMC	CARTERSVILLE	GA US	N 34-12-34	W 084-47-49	70.21	360.8	20.93/32.70	121.95	111.22	.1768298	3.9333		L0 6
WFRN	ELKHART	IN US	N 41-37-16	W 085-57-40	147.35	826.7	8.01/14.25	306.15	293.85	.0546116	3.2095	27.509	L0
WMLF	COLUMBUS	GA US	N 32-26-16	W 085-01-10	48.38	481.4	15.56/25.31	133.97	126.66	.1266354	3.2080		L0 6

- indicates lower adjacent frequency  
+ indicates upper adjacent frequency

SUMMARY OF LIMITS TO WLK 1270 kHz NEWPORT, TN  
35° 57' 49" North Latitude/83° 12' 31" West Longitude

Call	City	St Co	Latitude (D-M-S)	Longitude (D-M-S)	Az (Deg)	Dist (km)	Min/Max (Deg)	E(Hor) (m/m)	E(Vert) (m/m)	E(Sky) (m/m)	Limit (m/m)	RSS (m/m)	Code
WXYT	DETROIT	MI US	N 42-27-58 W	083-15-00	179.70	723.1	9.63/16.65	947.72	906.59	.0660393	11.9741		LO 8
WGBF	ROCK ISLAND	IL US	N 41-29-40 W	090-28-00	132.00	879.5	7.31/13.21	880.10	867.80	.0492661	8.5506	8.551	LO
WJCO	MARYSVILLE	OH US	N 40-14-46 W	083-19-50	178.68	476.3	15.74/25.56	353.25	331.62	.1228655	8.1488	11.812	LO
WQBC	CUMBERLAND	MD US	N 39-40-28 W	078-46-48	224.69	566.9	12.97/21.57	409.37	391.63	.0973163	7.6224	14.058	LO
50% Exclusion													
WXYT	DETROIT	MI US	N 42-01-39 W	083-20-42	178.96	676.4	10.53/17.99	492.22	471.72	.0739169	6.9737	15.692	CP
WETC	CHARLESTON	IL US	N 39-30-18 W	088-12-54	130.25	590.5	12.37/20.70	380.49	366.77	.0924861	6.7842	17.096	LO
WTJZ	NEWPORT NEWS	VA US	N 37-01-52 W	076-22-00	261.07	622.9	11.61/19.58	332.42	322.54	.0870395	5.6148	17.994	LO
KESS	FORT WORTH	TX US	N 32-43-36 W	097-11-30	70.45	1331.9	3.17/ 7.16	1017.80	1011.45	.0277088	5.6052	18.847	CP
KESS	FORT WORTH	TX US	N 32-43-36 W	097-11-30	70.45	1331.9	3.17/ 7.16	1017.78	1011.42	.0277088	5.6051		LO 8
WFRN	ELKHART	IN US	N 41-37-16 W	085-57-40	158.36	672.7	10.56/18.04	388.11	360.82	.0747021	5.3908	19.603	LO
WJJC	COMMERCE	GA US	N 34-12-57 W	083-26-09	6.01	195.4	35.92/50.28	117.95	86.58	.3033562	5.2527		LO 6
WYXC	CARTERSVILLE	GA US	N 34-12-34 W	084-47-49	36.08	242.8	30.11/44.00	121.95	100.63	.2583749	5.2001		LO 6
WLBR	LEBANON	PA US	N 40-21-35 W	076-27-30	232.49	765.9	8.92/15.60	426.76	416.93	.0617423	5.1484	20.268	LO
25% Exclusion													
WQGC	BELMONT	NC US	N 35-15-05 W	081-03-26	292.78	210.0	33.95/48.21	143.80	79.08	.2886112	4.5646	20.775	LO
WACA	GARY	IN US	N 41-31-38 W	087-22-36	148.38	716.3	9.75/16.83	358.78	333.94	.0680426	4.5444	21.267	LO
WHS	HAMPTON	SC US	N 32-50-39 W	081-07-28	331.72	396.0	19.08/30.21	168.00	142.05	.1595313	4.5323	21.744	LO
WTJZPRO	NEWPORT NEWS	VA US	N 37-01-52 W	076-22-00	261.07	622.9	11.61/19.58	251.40	244.35	.0870395	4.2536	22.156	

- indicates lower adjacent frequency  
+ indicates upper adjacent frequency

SUMMARY OF LIMITS TO WXYT 1270 kHz DETROIT, MI  
42° 01' 39" North Latitude/83° 20' 42" West Longitude

Call	City	St Co	Latitude (D-M-S)	Longitude (D-M-S)	Az (Deg)	Dist (km)	Min/Max (Deg)	E(Hor) (m/m)	E(Vert) (m/m)	E(Sky) (m/m)	Limit (m/m)	RSS (m/m)	Code
WXYT	DETROIT	MI US	N 42-27-58	W 083-15-00	189.14	49.4	70.94/78.21	825.19	78.83	.4459636	7.0310		LO 8
WAGO	MADISON	IN US	N 38-44-28	W 085-21-41	24.40	403.3	18.73/29.73	67.97	67.24	.1459913	1.9634		LO 6
WGBF	ROCK ISLAND	IL US	N 41-29-40	W 090-28-00	81.90	593.5	12.29/20.59	162.69	105.94	.0831971	1.7627	1.763	LO
50% Exclusion													
WHLI	NIAGARA FALLS	NY US	N 42-44-41	W 078-53-13	259.22	374.7	20.17/31.68	62.55	56.11	.1518955	1.7046	2.452	LO
WJCO	MARYSVILLE	OH US	N 40-14-46	W 083-19-50	359.65	198.1	35.55/49.89	48.29	26.21	.2901540	1.5211	2.886	LO
WFRN	ELKHART	IN US	N 41-37-16	W 085-57-40	77.35	221.4	32.52/46.68	36.10	28.23	.2641986	1.4917	3.248	LO
KESS	FORT WORTH	TX US	N 32-43-36	W 097-11-30	45.73	1598.4	1.54/ 4.89	400.31	399.63	.0181916	1.4540	3.559	CP
KESS	FORT WORTH	TX US	N 32-43-36	W 097-11-30	45.73	1598.4	1.54/ 4.89	400.29	399.61	.0181916	1.4539		LO 8
WAIN	COLUMBIA	KY US	N 37-06-36	W 085-16-42	16.25	571.3	12.85/21.40	80.99	77.87	.0932081	1.4517		LO 6
WSPR	SPRINGFIELD	MA US	N 42-05-24	W 072-36-11	273.16	886.3	7.23/13.09	151.20	156.53	.0417959	1.3085	3.792	LO 8
WACA	GARY	IN US	N 41-31-38	W 087-22-36	79.21	338.9	22.25/34.42	43.46	37.45	.1746880	1.3084	4.001	LO
WHGS	HAMPTON	SC US	N 32-50-39	W 081-07-28	349.80	1039.7	5.54/10.60	168.00	165.64	.0385103	1.2758		LO
WSPR	SPRINGFIELD	MA US	N 42-06-06	W 072-37-23	273.07	884.6	7.25/13.12	153.37	151.66	.0419279	1.2718		CP 8
WYXC	CARTERSVILLE	GA US	N 34-12-34	W 084-47-49	7.87	878.5	7.32/13.23	121.95	120.59	.0500554	1.2072		LO 6
WMKT	CHARLEVOIX	MI US	N 45-16-22	W 085-15-08	156.30	392.1	19.27/30.47	59.30	42.84	.1390525	1.1915	4.174	LO
WJJC	COMMERCE	GA US	N 34-12-57	W 083-26-09	.50	868.7	7.45/13.42	117.95	116.40	.0509115	1.1852		LO 6
WOLA	WALTON	NY US	N 42-08-08	W 075-04-52	271.76	681.8	10.38/17.77	92.18	89.89	.0651308	1.1709		LO 6
WSPR	SPRINGFIELD	MA US	N 42-05-55	W 072-37-45	273.08	884.1	7.25/13.13	137.10	130.36	.0419719	1.0943	4.315	CP
25% Exclusion													
WMIZ	VINELAND	NJ US	N 39-29-53	W 075-04-31	294.66	750.7	9.16/15.96	98.51	91.89	.0586796	1.0784	4.448	LO
WTJZPRO	NEWPORT NEWS	VA US	N 37-01-52	W 076-22-00	315.05	816.1	8.16/14.48	107.03	100.11	.0535836	1.0729	4.576	

- indicates lower adjacent frequency  
+ indicates upper adjacent frequency

SUMMARY OF LIMITS TO WLBR 1270 kHz LEBANON, PA  
40° 21' 35" North Latitude/76° 27' 30" West Longitude

Call	City	St Co	Latitude (D-M-S)	Longitude (D-M-S)	Az (Deg)	Dist (km)	Min/Max (Deg)	E(Hor) (mV/m)	E(Vert) (mV/m)	E(Sky) (mV/m)	Limit (mV/m)	RSS (mV/m)	Code
WYTT	DETROIT	MI US	N 42-27-58	W 083-15-00	110.19	612.7	11.84/19.92	849.07	807.16	.0790745	12.7652	10.289	LO 8
WABC	CLIMBERLAND	MD US	N 39-40-28	W 078-46-48	68.18	211.9	33.71/47.95	229.44	184.42	.2789518	10.2886	10.289	LO 8
WSPR	SPRINGFIELD	MA US	N 42-05-24	W 072-36-11	240.46	375.4	20.13/31.63	185.30	194.07	.1550444	6.0179	10.289	LO 8
CJTN	TRENTON	ON CA	N 44-02-41	W 077-34-47	166.92	420.0	17.97/28.68	267.27	220.63	.1315093	5.8030	11.812	O
50% Exclusion													
WHL	NIAGARA FALLS	NY US	N 42-44-41	W 078-53-13	141.88	333.4	22.60/34.87	158.17	155.21	.1772703	5.5027	13.031	LO
WYTT	DETROIT	MI US	N 42-01-39	W 083-20-42	105.55	605.1	12.01/20.18	177.15	323.09	.0811672	5.2448	14.047	OP
WTSN	DOVER	NH US	N 43-11-01	W 070-51-14	237.85	560.7	13.13/21.81	324.21	290.34	.0886735	5.1491	14.961	LO
WLK	NEWPORT	TN US	N 35-57-49	W 083-12-31	48.32	765.9	8.92/15.60	431.03	415.84	.0617422	5.1349	15.818	LO
WJDO	MARYSVILLE	OH US	N 40-14-46	W 083-19-50	86.54	582.8	12.56/20.98	280.68	269.38	.0882016	4.7520	16.516	LO
WTJZ	NEWPORT NEWS	VA US	N 37-01-52	W 076-22-00	358.80	370.2	20.41/32.00	208.96	143.15	.1654422	4.7366	17.182	LO
WSPR	SPRINGFIELD	MA US	N 42-06-06	W 072-37-23	240.15	374.6	20.17/31.68	153.37	140.59	.1554212	4.3703	17.182	OP 8
25% Exclusion													
WRLZ	EATONVILLE	FL US	N 28-34-03	W 081-25-38	17.79	1387.5	2.79/ 6.64	774.41	771.68	.0253945	3.9193	17.623	LO
WOLA	WALTON	NY US	N 42-08-08	W 075-04-52	210.70	228.6	31.68/45.75	92.18	72.84	.2580481	3.7590	17.986	LO 6
WGC	BELMONT	NC US	N 35-15-05	W 081-03-26	34.04	696.8	10.10/17.35	256.91	249.88	.0719639	3.5965	17.986	LO
WJLS	TALLAHASSEE	FL US	N 30-25-38	W 084-19-46	30.65	1313.5	3.29/ 7.34	649.77	655.21	.0272567	3.5718	18.338	LO
WMLZ	VINELAND	NJ US	N 39-29-53	W 075-04-31	309.53	151.9	43.10/57.20	110.52	49.78	.3445085	3.4302	18.656	LO
WJZ	SPRINGFIELD	MA US	N 42-05-55	W 072-37-45	240.15	374.0	20.20/31.73	179.81	92.45	.1557320	2.8795	18.877	OP
WJDO	NEW YORK	NY US	N 40-49-36	W 074-04-32	256.31	207.8	34.24/48.52	346.54	420.53	.2808499	2.3621	19.024	LO
WTJZPRO	NEWPORT NEWS	VA US	N 37-01-52	W 076-22-00	358.80	370.2	20.41/32.00	91.52	65.90	.1654422	2.1804	19.148	LO

- indicates lower adjacent frequency  
+ indicates upper adjacent frequency

SUMMARY OF LIMITS TO WHGS 1270 kHz HAMPTON, SC  
32° 50' 39" North Latitude/81° 07' 28" West Longitude

Call	City	St Co	Latitude (D-M-S)	Longitude (D-M-S)	Az (Deg)	Dist (km)	Min/Max (Deg)	E(Hor) (m/m)	E(Vert) (m/m)	E(Sky) (m/m)	Limit (m/m)	RSS (m/m)	Code
WMLS	TALLAHASSEE	FL US	N 30-25-38	W 084-19-46	47.64	405.3	18.64/29.61	1244.42	1183.29	.1563274	36.9963	36.996	LO
WRLZ	EATONVILLE	FL US	N 28-34-03	W 081-25-38	3.41	476.4	15.73/25.56	428.22	384.39	.1293337	9.9428	38.309	LO
WGOC	BELMONT	NC US	N 35-15-05	W 081-03-26	181.34	267.7	27.65/41.14	237.20	193.66	.2378420	9.2120	39.401	LO
WYTT	DETROIT	MI US	N 42-27-58	W 083-15-00	169.42	1086.0	5.10/ 9.96	1042.10	1028.78	.0355135	7.3071	39.902	LO
WTJZPRO	NEWPORT NEWS	VA US	N 37-01-52	W 076-22-00	224.36	636.1	11.31/19.15	373.56	364.88	.0863728	6.3031	40.301	LO
WQBC	CLIMBERLAND	MD US	N 39-40-28	W 078-46-48	196.18	788.0	8.57/15.09	466.47	457.79	.0617730	5.6558	40.691	LO
WTJZ	NEWPORT NEWS	VA US	N 37-01-52	W 076-22-00	224.36	636.1	11.31/19.15	337.93	325.31	.0863728	5.6195	41.066	LO
WGBF	ROCK ISLAND	IL US	N 41-29-40	W 090-28-00	136.36	1267.4	3.62/ 7.82	1004.41	1000.13	.0276870	5.5381	41.402	CP
KESS	FORT WORTH	TX US	N 32-43-36	W 097-11-30	85.13	1500.6	2.10/ 5.66	1134.23	1131.20	.0232827	5.2672	41.733	CP
KESS	FORT WORTH	TX US	N 32-43-36	W 097-11-30	85.13	1500.6	2.10/ 5.66	1134.16	1131.13	.0232827	5.2672	41.733	CP
WYTT	DETROIT	MI US	N 42-01-39	W 083-20-42	168.44	1039.7	5.54/10.60	689.54	680.58	.0385097	5.2418	41.733	CP

- indicates lower adjacent frequency  
+ indicates upper adjacent frequency

SUMMARY OF LIMITS TO WHLD 1270 kHz NIAGARA FALLS, NY  
42° 44' 41" North Latitude/78° 53' 13" West Longitude

Call	City	St	Co	Latitude (D-M-S)	Longitude (D-M-S)	Az (Deg)	Dist (km)	Min/Max (Deg)	E(Hor) (m/m)	E(Vert) (m/m)	E(Sky) (m/m)	Limit (m/m)	RSS (m/m)	Code
WXYT	DETROIT	MI	US	N 42-27-58	W 083-15-00	83.57	358.4	21.07/32.88	754.51	656.10	.1593647	20.9119	16.504	LO 8
WXYT	DETROIT	MI	US	N 42-01-39	W 083-20-42	76.22	374.7	20.17/31.68	552.22	543.27	.1518953	16.5039	16.504	CP
WLBK	LEBANON	PA	US	N 40-21-35	W 076-27-30	323.49	50% Exclusion							
WSPR	SPRINGFIELD	MA	US	N 42-05-24	W 072-36-11	280.15	25% Exclusion							
WJOD	MARYSVILLE	OH	US	N 40-14-46	W 083-19-50	51.65	520.8	14.27/23.47	156.53	170.53	.0967645	3.3003	17.662	LO 8
WSPR	SPRINGFIELD	MA	US	N 42-05-55	W 072-37-45	280.07	462.7	16.24/26.27	144.04	138.07	.1185006	3.2723	17.909	CP
WOLA	WALTON	NY	US	N 42-08-08	W 075-04-52	283.52	518.5	14.34/23.57	169.15	152.36	.0973737	2.9672	17.909	CP
WSPR	SPRINGFIELD	MA	US	N 42-06-06	W 072-37-23	280.02	319.5	23.52/36.06	92.18	80.99	.1819432	2.9470	17.909	CP
WLIK	NEWPORT	TN	US	N 35-57-49	W 083-12-31	24.88	519.0	14.33/23.55	153.37	146.80	.0972488	2.8552	18.130	LO
WTJZ	NEWPORT NEWS	VA	US	N 37-01-52	W 076-22-00	342.10	840.3	7.82/13.98	281.29	273.41	.0515515	2.8189	18.298	LO
WBCB	CUMBERLAND	MD	US	N 39-40-28	W 078-46-48	358.53	670.6	10.60/18.10	189.60	171.46	.0721813	2.4752	18.462	LO
WMTZ	VINELAND	NJ	US	N 39-29-53	W 075-04-31	319.75	341.5	22.08/34.21	104.53	70.56	.1739649	2.4549	18.576	LO
WRLZ	EATONVILLE	FL	US	N 28-34-03	W 081-25-38	7.56	481.8	15.34/25.29	109.58	91.16	.1127289	2.0553	18.684	LO
WTJZPRO	NEWPORT NEWS	VA	US	N 37-01-52	W 076-22-00	342.10	1592.8	1.57/ 4.94	523.93	523.35	.0191545	1.7094	18.762	LO

- indicates lower adjacent frequency  
+ indicates upper adjacent frequency

SUMMARY OF LIMITS TO WSPR 1270 kHz SPRINGFIELD, MA  
42°05' 55" North Latitude/72°37' 45" West Longitude

Call	City	St Co	Latitude (D-M-S)	Longitude (D-M-S)	Az (Deg)	Dist (km)	Min/Max (Deg)	E(Hor) (m/m)	E(Vert) (m/m)	E(Sky) (m/m)	Limit (m/m)	RSS (m/m)	Code
WTSN	DOVER	NH US	N 43-11-01	W 070-51-14	230.88	188.8	36.89/51.26	246.97	122.55	.2910323	7.1332	7.133	LO
WAYT	DETROIT	MI US	N 42-27-58	W 083-15-00	89.09	874.1	7.38/13.31	759.00	746.54	.0423461	6.3226		LO 8
WOLA	WALTON	NY US	N 42-08-08	W 075-04-52	90.34	202.3	34.97/49.29	92.18	69.13	.2797647	3.8680		LO 6
50% Exclusion													
WRLZ	EATONVILLE	FL US	N 28-34-03	W 081-25-38	25.48	1700.9	1.00/ 4.16	960.25	959.82	.0170396	3.2710	7.847	LO
WAYT	DETROIT	MI US	N 42-01-39	W 083-20-42	85.89	884.1	7.25/13.13	375.32	362.56	.0419718	3.0435	8.417	CP
CJTN	TRENTON	ON CA	N 44-02-41	W 077-34-47	116.58	456.5	16.47/26.59	144.19	127.96	.1139987	2.9174	8.908	0
WJLS	TALLAHASSEE	FL US	N 30-25-38	W 084-19-46	35.61	1665.4	1.19/ 4.41	822.85	823.36	.0171145	2.8183	9.343	LO
WQBC	CLIMBERLAND	MD US	N 39-40-28	W 078-46-48	60.48	582.9	12.55/20.97	165.84	162.52	.0862911	2.8048	9.755	LO
CFGT	ALMA	QC CA	N 48-31-46	W 071-36-31	186.73	719.5	9.69/16.75	288.54	278.92	.0500096	2.7898	10.146	0
WLTK	NEWPORT	TN US	N 35-57-49	W 083-12-31	50.01	1138.9	4.63/ 9.28	439.70	435.48	.0307544	2.6786	10.494	LO
25% Exclusion													
WLBR	LEBANON	PA US	N 40-21-35	W 076-27-30	57.62	376.0	20.20/31.73	84.43	83.99	.1557320	2.6159	10.815	LO
WHLB	NITAGARA FALLS	NY US	N 42-44-41	W 078-53-13	95.84	518.5	14.34/23.57	142.54	129.88	.0973737	2.5294	11.107	LO
WTJZPRO	NEWPORT NEWS	VA US	N 37-01-52	W 076-22-00	28.45	648.0	11.06/18.78	160.60	162.32	.0765499	2.4852	11.382	LO
WMIZ	VINELAND	NJ US	N 39-29-53	W 075-04-31	34.66	354.9	21.27/33.14	80.96	66.21	.1672603	2.2149	11.595	LO
WGGC	BELMONT	NC US	N 35-15-05	W 081-03-26	41.29	1054.9	5.39/10.38	281.62	279.36	.0356911	1.9941	11.765	LO
WUOD	MARYSVILLE	OH US	N 40-14-46	W 083-19-50	73.56	918.4	6.84/12.51	236.48	233.79	.0409676	1.9156	11.920	LO
CJCB	SYDNEY	NS CA	N 46-10-50	W 060-11-30	249.86	1089.8	5.07/ 9.91	361.15	359.77	.0247656	1.7820	12.053	0
KESS	FORT WORTH	TX US	N 32-43-36	W 097-11-30	57.15	2395.1	.00/ .29	723.09	723.09	.0077644	1.1229	12.105	CP
KESS	FORT WORTH	TX US	N 32-43-36	W 097-11-30	57.15	2395.1	.00/ .29	723.09	723.09	.0077644	1.1229	12.105	CP
WTJZ	NEWPORT NEWS	VA US	N 37-01-52	W 076-22-00	28.45	648.0	11.06/18.78	83.79	83.99	.0765499	1.1161	12.156	LO

- indicates lower adjacent frequency  
+ indicates upper adjacent frequency

- indicates lower adjacent frequency  
+ indicates upper adjacent frequency

SUMMARY OF LIMITS TO WNLS 1270 kHz TALLAHASSEE, FL  
30° 25' 38" North Latitude/84° 19' 46" West Longitude

Call	City	St Co	Latitude (D-M-S)	Longitude (D-M-S)	Az (Deg)	Dist (km)	Min/Max (Deg)	E(Hor) (m/m)	E(Vert) (m/m)	E(Sky) (m/m)	Limit (m/m)	RSS (m/m)	Code
WJBF	ROCK ISLAND	IL US	N 41-29-40	W 090-28-00	153.96	1348.0	3.06/ 7.01	1357.53	1351.72	.0259389	7.0124	7.012	LO
KESB	FORT WORTH	TX US	N 32-43-36	W 097-11-30	98.42	1244.1	3.79/ 8.06	1032.03	1023.18	.0327254	6.6968	9.696	CP
KESB	FORT WORTH	TX US	N 32-43-36	W 097-11-30	98.42	1244.1	3.79/ 8.06	1031.96	1023.11	.0327254	6.6964		LO 8
WMLF	COLUMBUS	GA US	N 32-26-16	W 085-01-10	163.50	232.9	3.18/45.20	133.97	106.81	.2651430	5.6642		LO 6
WNOG	NAPLES	FL US	N 26-15-26	W 081-40-33	331.37	531.4	13.96/23.01	207.72	216.86	.1142086	4.9534	10.888	LO
50% Exclusion													
WXYT	DETROIT	MI US	N 42-27-58	W 083-15-00	184.46	1342.1	3.10/ 7.07	889.69	885.73	.0256001	4.5350		LO 8
WHSB	HAMPTON	SC US	N 32-50-39	W 081-07-28	229.32	405.3	18.64/29.61	168.00	143.14	.1563273	4.4754	11.772	LO
WXYT	DETROIT	MI US	N 42-01-39	W 083-20-42	184.22	1292.9	3.44/ 7.55	724.17	718.45	.0275365	3.9567	12.419	CP
WNOG	NAPLES	FL US	N 26-15-26	W 081-40-33	331.37	531.4	13.96/23.01	132.02	155.51	.1142086	3.5521		AP 2
WDOO	TORRIENTE	CJ	N 22-36-00	W 081-13-00	341.09	923.7	6.77/12.42	309.50	304.45	.0563488	3.4311		0 7
WYXC	CARTERSVILLE	GA US	N 34-12-34	W 084-47-49	173.91	422.9	17.84/28.51	121.95	114.07	.1488589	3.3960		LO 6
WETC	CHARLESTON	IL US	N 39-30-18	W 088-12-54	159.53	1069.4	5.25/10.18	420.05	416.89	.0392558	3.2814	12.846	LO
25% Exclusion													
WJJC	COMMERCE	GA US	N 34-12-57	W 083-26-09	191.51	429.6	17.55/28.11	117.95	109.60	.1461453	3.2036		LO 6
WBCB	CLIMBERLAND	MD US	N 39-40-28	W 078-46-48	207.81	1145.0	4.58/ 9.20	450.66	448.21	.0348572	3.1246	13.220	LO
WTJZPRO	NEAPORT NEWS	VA US	N 37-01-52	W 076-22-00	227.36	1039.1	5.54/10.60	367.38	365.26	.0419254	3.0627	13.570	LO
WACA	GARY	IN US	N 41-31-38	W 087-22-36	166.55	1264.1	3.65/ 7.85	503.72	499.38	.0289445	2.8909	13.875	LO
CMGR	S SPIRITUS	CJ	N 21-56-00	W 079-27-00	333.77	1062.2	5.32/10.28	309.50	306.37	.0461747	2.8294		P 7
WTJZ	NEAPORT NEWS	VA US	N 37-01-52	W 076-22-00	227.36	1039.1	5.54/10.60	328.59	325.78	.0419254	2.7317	14.141	LO

- indicates lower adjacent frequency  
+ indicates upper adjacent frequency

SUMMARY OF LIMITS TO CJTN 1270 kHz TRENTON, ON CA  
44° 02' 41" North Latitude/77° 34' 47" West Longitude

Call	City	St Co	Latitude (D-M-S)	Longitude (D-M-S)	Az (Deg)	Dist (km)	Min/Max (Deg)	E(Hor) (m/m)	E(Vert) (m/m)	E(Sky) (m/m)	Limit (m/m)	RSS (m/m)	Code
WXYT	DETROIT	MI US	N 42-27-58	W 083-15-00	67.15	491.5	20.18/20.18	791.90	690.65	-1260674	17.4136	14.449	LO 8
WXYT	DETROIT	MI US	N 42-01-39	W 083-20-42	62.47	519.3	19.07/19.07	828.22	592.74	-1218842	14.4490	14.449	CP
WTSN	DOVER	NH US	N 43-11-01	W 070-51-14	282.34	549.7	17.97/17.97	451.74	360.44	-1175317	8.4727	16.750	LO
50% Exclusion													
WSPR	SPRINGFIELD	MA US	N 42-05-55	W 072-37-45	299.96	456.5	21.73/21.73	352.34	291.85	-1316645	7.6851	18.429	CP
WSPR	SPRINGFIELD	MA US	N 42-05-24	W 072-36-11	299.95	458.9	21.62/21.62	222.05	221.68	-1312812	5.8205	19.159	LO 8
WLBK	LEBANON	PA US	N 40-21-35	W 076-27-30	347.67	420.0	23.57/23.57	253.30	188.37	-1390222	5.2374	19.159	LO
WSPR	SPRINGFIELD	MA US	N 42-06-06	W 072-37-23	299.90	456.8	21.72/21.72	153.37	138.65	-1316207	3.6498	19.482	CP 8
WLK	NEPORT	TN US	N 35-57-49	W 083-12-31	26.31	1017.9	8.36/ 8.36	292.95	283.62	-0623012	3.5340	19.482	LO
WTJZ	NEPORT NEWS	VA US	N 37-01-52	W 076-22-00	352.90	786.6	11.91/11.91	210.26	186.14	-0879892	3.2756	19.755	LO
WAMI	BAXTER	MN US	N 46-17-55	W 094-16-42	94.82	1330.2	5.19/ 5.19	405.17	401.58	-0363973	2.9233	19.970	LO
CFGT	ALMA	QC CA	N 48-31-46	W 071-36-31	224.81	677.2	14.27/14.27	153.88	137.55	-1020029	2.8061	20.167	0
WDLA	WALTON	NY US	N 42-08-08	W 075-04-52	317.14	293.6	32.46/32.46	92.18	71.98	-1754397	2.5256	20.322	LO 6
WJCO	MARYSVILLE	OH US	N 40-14-46	W 083-19-50	46.40	634.7	15.36/15.36	120.52	117.24	-1071519	2.5125	20.322	LO
CJCB	SYDNEY	NS CA	N 46-10-50	W 060-11-30	266.39	1382.1	4.77/ 4.77	355.12	353.31	-0330139	2.3328	20.456	0
WCGC	BELMONT	NC US	N 35-15-05	W 081-03-26	15.84	1021.8	8.31/ 8.31	182.75	179.84	-0619036	2.2266	20.577	LO
KQEB	ROCHESTER	MN US	N 43-58-47	W 092-26-51	84.47	1187.4	6.49/ 6.49	206.30	201.65	-0469575	1.8938	20.664	LO
WRLZ	EATONVILLE	FL US	N 28-34-03	W 081-25-38	10.22	1754.6	2.27/ 2.27	587.74	586.38	-0157934	1.8522	20.747	LO
WTJZPRO	NEPORT NEWS	VA US	N 37-01-52	W 076-22-00	352.90	786.6	11.91/11.91	108.08	95.72	-0879892	1.6844	20.815	LO

- indicates lower adjacent frequency  
+ indicates upper adjacent frequency

SUMMARY OF LIMITS TO CJCB 1270 kHz SYDNEY,NS CA  
46° 10' 50" North Latitude/60° 11' 30" West Longitude

Call	City	St Co	Latitude (D-M-S)	Longitude (D-M-S)	Az (Deg)	Dist (km)	Min/Max (Deg)	E(Hor) (m/m)	E(Vert) (m/m)	E(Sky) (m/m)	Limit (m/m)	RSS (m/m)	Code
WXYT	DETROIT	MI US	N 42-27-58 W 083-15-00	69.36	1873.1	1.61/ 7.53	782.69	151.53	0.0128509	2.0100	2.0100	LO	8
WSPR	SPRINGFIELD	MA US	N 42-05-24 W 072-36-11	61.09	1088.3	7.53/ 7.53	178.23	179.58	0.0558570	2.0062	2.0062	LO	8
WSPR	SPRINGFIELD	MA US	N 42-05-55 W 072-37-45	61.17	1089.8	7.51/ 7.51	181.65	178.06	0.0557381	1.9850	1.9850	CP	
WXYT	DETROIT	MI US	N 42-01-39 W 083-20-42	68.04	1898.1	1.48/ 1.48	768.55	768.00	0.0123150	1.8916	1.8916	CP	
50% Exclusion													
WSPR	SPRINGFIELD	MA US	N 42-06-06 W 072-37-23	61.18	1089.2	7.52/ 7.52	153.37	151.53	0.0557886	1.6908	1.6908	CP	8
CFGT	ALMA	QC CA	N 48-31-46 W 071-36-31	102.63	897.8	10.02/10.02	86.43	84.71	0.0753289	1.2763	1.2763	LO	
WTSN	DOVER	NH US	N 43-11-01 W 070-51-14	64.73	905.5	9.90/ 9.90	85.10	82.30	0.0744272	1.2251	1.2251	LO	
WTJZPRO	NEWPORT NEWS	VA US	N 37-01-52 W 076-22-00	47.70	1680.9	2.71/ 2.71	333.33	332.94	0.0182101	1.2126	1.2126	LO	
WRLZ	EATONVILLE	FL US	N 28-34-03 W 081-25-38	37.65	2695.4	0.0/ 0.0	1216.78	1216.78	0.046551	1.1329	1.1329	LO	
WMLS	TALLAHASSEE	FL US	N 30-25-38 W 084-19-46	43.14	2720.0	0.0/ 0.0	1089.80	1089.80	0.045561	0.9950	0.9950	LO	
CJTN	TRENTON	ON CA	N 44-02-41 W 077-34-47	74.02	1382.1	4.77/ 4.77	143.45	142.47	0.0330139	0.9407	0.9407	LO	
WHLZ	VINELAND	NJ US	N 39-29-53 W 075-04-31	53.59	1419.5	4.48/ 4.48	135.72	134.36	0.0307475	0.8263	0.8263	LO	
WMMT	BAXTER	MN US	N 46-17-55 W 094-16-42	77.79	2601.1	0.0/ 0.0	775.26	775.26	0.050997	0.7907	0.7907	LO	
WDLA	WALTON	NY US	N 42-08-08 W 075-04-52	64.17	1267.7	5.73/ 5.73	92.18	91.48	0.0408345	0.7471	0.7471	LO	
WLIK	NEWPORT	TN US	N 35-57-49 W 083-12-31	52.23	2227.0	0.0/ 0.0	450.29	450.29	0.0077138	0.6947	0.6947	LO	
WAKT	CHARLEVOIX	MI US	N 45-16-22 W 085-15-08	78.03	1939.8	1.26/ 1.26	284.54	284.42	0.0114799	0.6530	0.6530	LO	
WQBC	CUMBERLAND	MD US	N 39-40-28 W 078-46-48	58.29	1672.0	2.76/ 2.76	152.76	152.63	0.0185404	0.5660	0.5660	LO	
WCGC	BELMONT	NC US	N 35-15-05 W 081-03-26	48.81	2127.1	0.35/ 0.35	303.57	303.56	0.0087620	0.5320	0.5320	LO	
WLBK	LEBANON	PA US	N 40-21-35 W 076-27-30	58.39	1463.7	4.15/ 4.15	89.61	89.58	0.0282552	0.5062	0.5062	LO	
WTJZ	NEWPORT NEWS	VA US	N 37-01-52 W 076-22-00	47.70	1680.9	2.71/ 2.71	120.81	121.00	0.0182101	0.4407	0.4407	LO	

- indicates lower adjacent frequency  
+ indicates upper adjacent frequency

## Legend

Explanation of "CODE" which appears on the right edge of this report:	
CODE	
123456	
11--	[6] Corresponding expanded band domestic status (if this is a lower band station)
----	[5] Not included in RSS Calculation because:
	(1) Deleted Domestically
	(2) Application
	(3) Petition for Expanded Band
	(4) Objected
	(5) B-List or D-List
	(6) Class D station (formally 2S or 3S)
	(7) Cuban Operation
	(8) Multiple Entry
	(9) Test record
----	[4] FCC Dummy Data Code
	(8) Some data assumed; (V) Vertical antenna parameters assumed;
	(1) Vertical and horizontal antenna parameters assumed;
	(2) Coordinates are assumed
-----	[3] FCC Bad Record Code
	(8) Some data known to be bad; (V) Bad vertical antenna parameters;
	(1) Bad coordinates; (2) Bad horizontal antenna parameters;
	(3) Bad horizontal and vertical antenna parameters
-----	[2] IFRB Notified Status
	(A) Negotiated Priority; (P) Proposed; (T) Informal Proposal
	(O) Operating; (U) Un-notified; (Z) Test Record
-----	[1] Domestic Status
	(C) Construction Permit; (L) License; (A) Application;
	(D) Deleted; (M) Petition for Expanded Band;
	(P) Planned expanded band; (T) Test;
	(S) Petition for expanded band w/ stereo