

Nighttime Skywave Limits Study
In Support of an Application to
Change Frequency,
Increase Daytime Power
And Add Nighttime Service
KLDC, Brighton, Colorado
810 kHz, 2.2 kW-D/0.227 kW-N, DA-2

To determine the relevant nighttime protections and maximum inverse distance field (IDF) toward each protected station for the above-captioned application, a Nighttime Skywave Limits Study was conducted on 810 kHz and the two adjacent channels. The 25% and 50% exclusion RSS night limits for each domestic station were calculated using the 10% skywave formula given in 47 C.F.R. §73.190(c) and the procedures specified in §73.182(k)(2) and §73.182(k)(1), respectively.

50% RSS night limits were calculated for co-channel Mexican class B stations using the tables contained in the AM Agreement Between The United States and Mexico (1986). The required protection toward each Mexican class B station identified in the study was calculated using the procedure contained in Paragraph 4.9.2.3 of Annex 2 to the Agreement. No co-channel Mexican stations were identified as requiring protection lower than 500 mV/m by the proposed facility.

50% RSS night limits were calculated for co-channel Canadian class B stations using the tables contained in the Agreement Between the United States of America and the Government of Canada Relating to the AM Broadcasting Service in the Medium Frequency Band (1984). The required protection toward each Canadian class B station identified in the study was calculated using the procedure contained in Paragraph 4.7.2 of Annex 2 of the Agreement. No co-channel Canadian stations were identified as requiring protection lower than 500 mV/m by the proposed facility.

For each domestic class B station, a required protection was calculated (25% of the calculated 25% exclusion RSS night limit) along with the maximum and minimum vertical angles (θ_{\max} and θ_{\min}) using the 10% skywave formula in §73.190(c).

For KGO and WGY, the domestic class A stations on the channel, the 0.5 mV/m 50% skywave contour was calculated for each station at five-degree intervals using the formula given in §73.190(b). The maximum permissible inverse distance field (IDF) toward each point was then calculated along with the pertinent vertical angles using the 10% skywave formula in §73.190(c).

A directional antenna pattern was then designed that would limit the IDF at the relevant azimuths and vertical angles to the maximum permissible values calculated. The directional parameters along with the maximum $E(\theta, \theta)$ are shown as follows:

11-21-2003 06:08

KLDC-KLZ 39-50-36 N 104-57-08 W 0.227 kW
Crawford Broadcasting
Twr. No. Field Phasing Spacing Azimuth Height
1 0.605 180.0 57.0 330.5 58.0
2 1.000 0.0 0.0 0.0 132.0
3 0.635 97.0 80.0 227.0 58.0
RMS 149.12 mV/m (kilometer) Q 10.00 mV/m

Azi.	Max	IDF	Low Ø	IDF	High Ø	IDF	Protection
59.1	471.5		0.0	180.2	0.7	179.9	WGY-330
59.5	437.3		0.0	180.3	1.0	180.0	WGY-325
60.1	406.3		0.0	180.5	1.3	180.1	WGY-320
60.8	376.3		0.0	180.7	1.5	180.2	WGY-315
61.7	349.6		0.0	181.0	1.8	180.5	WGY-310
62.7	326.0		0.0	181.4	2.0	180.8	WGY-305
63.9	303.6		0.0	181.9	2.2	181.3	WGY-300
65.2	285.2		0.0	182.6	2.5	181.9	WGY-295
66.7	267.9		0.0	183.5	2.7	182.8	WGY-290
68.3	254.3		0.0	184.3	2.8	183.9	WGY-285
70.1	242.6		0.1	185.7	3.0	185.2	WGY-280
72.0	233.5		0.2	187.4	3.1	186.8	WGY-275
74.0	226.1		0.2	189.3	3.1	188.7	WGY-270
76.0	221.8		0.2	191.4	3.1	190.8	WGY-265
78.0	219.1		0.2	193.7	3.1	193.1	WGY-260
80.0	219.2		0.1	196.1	3.0	195.5	WGY-255
82.0	221.3		0.0	198.5	2.9	198.0	WGY-250
83.8	224.7		0.0	201.2	2.7	200.4	WGY-245
85.5	231.2		0.0	203.4	2.5	202.7	WGY-240
87.1	238.9		0.0	205.5	2.2	204.9	WGY-235
88.4	249.4		0.0	207.2	1.9	206.7	WGY-230
89.6	260.8		0.0	208.8	1.6	208.4	WGY-225
90.5	274.9		0.0	210.0	1.3	209.7	WGY-220
90.5	208.2		7.2	206.4	13.0	198.7	WHB-L
91.1	446.4		0.0	210.9	0.0	210.9	WGY-180
91.2	290.4		0.0	211.0	0.9	210.7	WGY-215
91.6	419.3		0.0	211.5	0.0	211.5	WGY-185
91.8	307.7		0.0	211.7	0.6	211.4	WGY-210
92.0	393.7		0.0	212.0	0.0	212.0	WGY-190
92.1	326.8		0.0	212.1	0.0	212.1	WGY-205
92.2	347.7		0.0	212.3	0.0	212.3	WGY-200
164.9	386.8		6.4	171.0	11.8	167.3	KXOI-L
210.3	112.2		1.7	70.2	5.1	70.5	KGO-140
210.7	128.7		1.0	69.4	4.1	69.7	KGO-145
210.9	96.6		2.5	69.3	6.3	69.7	KGO-135
211.9	145.5		0.3	67.5	3.2	67.7	KGO-150
212.8	82.5		3.5	66.3	7.6	67.0	KGO-130
213.7	162.1		0.0	65.7	2.5	64.9	KGO-155
215.9	178.1		0.0	62.5	1.9	61.7	KGO-160
216.3	70.6		4.4	61.6	8.9	62.6	KGO-125
218.5	192.5		0.0	59.3	1.3	58.4	KGO-165
221.4	205.1		0.0	56.0	0.9	55.1	KGO-170
221.6	61.5		5.3	55.5	10.3	57.1	KGO-120
224.5	216.1		0.0	53.1	0.6	52.1	KGO-175
227.8	225.2		0.0	50.5	0.4	49.4	KGO-180
229.0	55.9		6.0	49.5	11.3	51.6	KGO-115
231.2	231.2		0.0	48.4	0.3	47.2	KGO-185
234.8	233.4		0.0	46.7	0.3	45.5	KGO-190

Azi.	Max IDF	Low Ø	IDF	High Ø	IDF	Protection
238.1	54.5	6.2	45.1	11.6	47.1	KGO-110
238.5	232.5	0.0	45.3	0.4	44.1	KGO-195
242.2	228.5	0.0	44.0	0.6	42.8	KGO-200
245.9	220.6	0.0	42.7	0.9	41.4	KGO-205
247.8	59.0	5.7	41.2	10.9	42.7	KGO-105
249.7	208.4	0.0	41.1	1.3	39.8	KGO-210
253.7	190.7	0.0	39.0	2.0	37.6	KGO-215
256.1	70.1	4.8	36.3	9.5	37.3	KGO-100
257.6	170.3	0.0	34.8	2.8	34.9	KGO-220
261.4	147.2	0.8	31.3	3.9	31.5	KGO-225
261.6	86.3	3.6	31.2	7.8	31.9	KGO-95
262.3	146.0	0.9	30.3	4.0	30.5	KGO-230
262.9	88.4	3.5	29.8	7.6	30.4	KGO-90
263.6	150.0	0.8	28.9	3.8	29.1	KGO-240
263.8	87.9	3.5	28.8	7.7	29.5	KGO-85
264.2	152.0	0.7	28.1	3.8	28.3	KGO-245
264.7	87.7	3.6	27.7	7.7	28.4	KGO-80
264.9	152.8	0.7	27.3	3.8	27.5	KGO-250
265.6	87.4	3.6	26.6	7.8	27.3	KGO-75
265.7	152.6	0.7	26.3	3.8	26.5	KGO-255
266.4	151.8	0.8	25.4	3.8	25.6	KGO-260
266.5	88.4	3.5	25.4	7.7	26.1	KGO-70
267.1	152.0	0.8	24.5	3.9	24.7	KGO-265
267.3	90.8	3.4	24.3	7.5	25.0	KGO-65
268.1	91.5	3.4	23.2	7.5	23.9	KGO-60
268.3	163.8	0.4	22.8	3.4	22.9	KGO-270
269.0	91.7	3.4	21.9	7.5	22.6	KGO-55
271.1	204.1	0.0	21.3	2.1	18.6	KGO-275
272.5	81.6	4.1	16.3	8.5	17.3	KGO-50
274.2	248.3	0.0	16.7	1.1	13.0	KGO-280
277.4	285.6	0.0	12.6	0.4	7.0	KGO-285
280.1	68.5	5.2	2.6	10.1	4.8	KGO-45
280.4	315.5	0.0	10.6	0.0	10.6	KGO-290
283.3	337.3	0.0	12.3	0.0	12.3	KGO-295
286.0	350.9	0.0	16.9	0.0	16.9	KGO-300
287.6	64.9	5.6	16.6	10.8	15.1	KGO-40
288.7	357.5	0.0	22.6	0.0	22.6	KGO-305
291.2	358.9	0.0	28.9	0.0	28.9	KGO-310
293.7	355.6	0.0	35.5	0.0	35.5	KGO-315
294.4	66.9	5.6	35.2	10.7	33.0	KGO-35
296.1	348.3	0.0	42.3	0.4	40.9	KGO-320
298.5	337.7	0.0	49.2	0.7	48.0	KGO-325
300.8	324.3	0.0	56.1	1.1	55.0	KGO-330
301.2	73.0	5.2	55.4	10.1	52.8	KGO-30
303.0	307.1	0.0	62.8	1.4	61.9	KGO-335
305.1	285.8	0.0	69.1	1.9	68.1	KGO-340
305.7	83.5	4.6	69.4	9.2	66.8	KGO-25
306.9	261.5	0.0	74.7	2.4	73.7	KGO-345
307.7	96.9	3.9	76.1	8.1	73.8	KGO-20
308.4	235.4	0.2	78.9	3.0	78.4	KGO-350
309.6	113.8	3.1	82.2	7.1	80.3	KGO-15
309.7	208.4	0.7	82.8	3.7	82.2	KGO-355
310.5	181.9	1.2	85.4	4.4	84.5	KGO-0
310.6	134.0	2.5	85.4	6.2	83.9	KGO-10
310.9	156.8	1.8	86.4	5.3	85.3	KGO-5

It has thus been shown that the nighttime facility proposed herein meets all the requirements of 47 C.F.R. §73.182 with respect to nighttime skywave protection of co- and adjacent-channel stations.

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800 kHz Domestic RSS Protection Limits 25% & 50% Exclusion

Contributors: Licensed/Operating determines limit. FCC DATABASE: 11/ 2003

KQCV B L() US OK OKLAHOMA CITY 35-24-45 97-40-26 BL-20000612AAR
XEROK O(O) 800 MX CH CD.JUAREZ LIM: 47.453 RSS: 47.45 906 km
50% Exclusion RSS 47.45 mV/m
25% Exclusion RSS 47.45 mV/m Requires Protection of 11.863 mV/m
WSHO L() 800 US LA NEW ORLEANS LIC. NEXT 2.657 940 km

KPDQ B L() US OR PORTLAND 45-28-39 122-45-01 BL-19990309DF
XEROK O(O) 800 MX CH CD.JUAREZ LIM: 10.561 RSS: 10.56 2083 km
50% Exclusion RSS 10.56 mV/m
KGO L() 810 US CA SAN FRANCISCO LIM: 4.469 RSS: 11.47 886 km
CKOR O(A U) 800 CA BC PENTICTON LIM: 4.060 RSS: 12.17 500 km
25% Exclusion RSS 12.17 mV/m Requires Protection of 3.041 mV/m
CHAB O() 800 CA SK MOOSE JAW LIC. NEXT 2.139 1399 km

KINY B L(A) US AK JUNEAU 58-18-05 134-26-26 BL-19971015KH
XEROK O(O) 800 MX CH CD.JUAREZ LIM: 1.919 RSS: 2.50 3635 km
50% Exclusion RSS 2.50 mV/m
25% Exclusion RSS 2.50 mV/m Requires Protection of 0.625 mV/m
KGO L() 810 US CA SAN FRANCISCO LIC. NEXT 0.505 2477 km

WKBC B L() US NC NORTH WILKESBORO 36-11-16 81-08-30 BL-19981110AB
CKLW O(A) 800 CA ON WINDSOR LIM: 12.354 RSS: 12.35 672 km
WPJM L() 800 US SC GREER LIM: 8.997 RSS: 15.28 170 km
XEROK O(O) 800 MX CH CD.JUAREZ LIM: 8.714 RSS: 17.59 2374 km
50% Exclusion RSS 17.59 mV/m
WDSC L(AUU) 800 US SC DILLON LIM: 7.795 RSS: 19.24 256 km
WDEH L() 800 US TN SWEETWATER LIM: 6.529 RSS: 20.32 306 km
WSVS L(A) 800 US VA CREWE LIM: 6.175 RSS: 21.24 288 km
WJAT L() 800 US GA SWAINSBO RO LIM: 5.906 RSS: 22.04 416 km
25% Exclusion RSS 22.04 mV/m Requires Protection of 5.511 mV/m
WTMR L(A) 800 US NJ CAMDEN LIC. NEXT 3.838 671 km

WVAL B L() US MN SAUK RAPIDS 45-36-18 94-08-21 BL-19990224DC
XEROK O(O) 800 MX CH CD.JUAREZ LIM: 12.066 RSS: 12.07 1872 km
WDUX L() 800 US WI WAUPACA LIM: 7.416 RSS: 14.16 423 km
50% Exclusion RSS 14.16 mV/m
CKDR O(A) 800 CA ON DRYDEN LIM: 4.294 RSS: 14.80 478 km
CKLW O(A) 800 CA ON WINDSOR LIM: 4.216 RSS: 15.39 975 km
25% Exclusion RSS 15.39 mV/m Requires Protection of 3.847 mV/m
CHAB O() 800 CA SK MOOSE JAW LIC. NEXT 3.012 990 km

KDFO B L(AO) US CA BAKERSFIELD 35-20-44 118-59-33 BL-19901031AG
XEROK O(O) 800 MX CH CD.JUAREZ LIM: 29.995 RSS: 30.00 1237 km
50% Exclusion RSS 30.00 mV/m
KGO L() 810 US CA SAN FRANCISCO LIM: 9.037 RSS: 31.33 369 km
25% Exclusion RSS 31.33 mV/m Requires Protection of 7.832 mV/m
KABC L() 790 US CA LOS ANGELES LIC. NEXT 4.283 157 km

WLAD B L() US LA COUSHATTA 41-22-27 73-26-47 BL-19801203AB
CKLW O(A) 800 CA ON WINDSOR LIM: 35.098 RSS: 35.10 796 km
50% Exclusion RSS 35.10 mV/m
25% Exclusion RSS 35.10 mV/m Requires Protection of 8.775 mV/m
WTMR L(A) 800 US NJ CAMDEN LIC. NEXT 7.536 214 km

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WPLK	B	L(AUU)	US FL PALATKA	29-39-07	81-35-32	BL-19901031AC
XEROK		O(O)	800 MX CH CD.JUAREZ	LIM:	9.638	RSS: 9.64 2376 km
WJAT		L()	800 US GA SWAINSBORO	LIM:	7.254	RSS: 12.06 334 km
50% Exclusion RSS 12.06 mV/m						
WDSC		L(AUU)	800 US SC DILLON	LIM:	3.794	RSS: 12.65 564 km
WPJM		L()	800 US SC GREER	LIM:	3.590	RSS: 13.15 592 km
WSHO		L()	800 US LA NEW ORLEANS	LIM:	3.516	RSS: 13.61 822 km
25% Exclusion RSS 13.61 mV/m Requires Protection of 3.402 mV/m						
CKLW		O(A)	800 CA ON WINDSOR	LIC. NEXT	2.978	1385 km
WJAT	B	L()	US GA SWAINSBORO	32-35-08	82-21-42	BL-
XEROK		O(O)	800 MX CH CD.JUAREZ	LIM:	10.220	RSS: 10.22 2258 km
WPJM		L()	800 US SC GREER	LIM:	7.795	RSS: 12.85 263 km
WDSC		L(AUU)	800 US SC DILLON	LIM:	6.442	RSS: 14.38 339 km
50% Exclusion RSS 14.38 mV/m						
WPLK		L(AUU)	800 US FL PALATKA	LIM:	6.100	RSS: 15.62 334 km
WDEH		L()	800 US TN SWEETWATER	LIM:	5.340	RSS: 16.51 388 km
WKBC		L()	800 US NC NORTH WILKESBORO	LIM:	4.661	RSS: 17.15 416 km
25% Exclusion RSS 17.15 mV/m Requires Protection of 4.288 mV/m						
CKLW		O(A)	800 CA ON WINDSOR	LIC. NEXT	4.242	1055 km
WKZI	B	L()	US IL CASEY	39-18-16	87-58-17	BL-
XEROK		O(O)	800 MX CH CD.JUAREZ	LIM:	13.466	RSS: 13.47 1864 km
CKLW		O(A)	800 CA ON WINDSOR	LIM:	12.758	RSS: 18.55 519 km
50% Exclusion RSS 18.55 mV/m						
25% Exclusion RSS 18.55 mV/m Requires Protection of 4.638 mV/m						
KQCV		L()	800 US OK OKLAHOMA CITY	LIC. NEXT	4.565	960 km
WSHO	B	L()	US LA NEW ORLEANS	29-50-42	90-06-39	BL-
XEROK		O(O)	800 MX CH CD.JUAREZ	LIM:	20.583	RSS: 20.58 1566 km
50% Exclusion RSS 20.58 mV/m						
25% Exclusion RSS 20.58 mV/m Requires Protection of 5.146 mV/m						
KQCV		L()	800 US OK OKLAHOMA CITY	LIC. NEXT	3.668	940 km
WTMR	B	L(A)	US NJ CAMDEN	39-54-33	75-06-00	BL-19880512AD
CKLW		O(A)	800 CA ON WINDSOR	LIM:	44.402	RSS: 44.40 705 km
50% Exclusion RSS 44.40 mV/m						
25% Exclusion RSS 44.40 mV/m Requires Protection of 11.101 mV/m						
WGY		L()	810 US NY SCHENECTADY	LIC. NEXT	6.970	333 km
WDSC	B	L(AUU)	US SC DILLON	34-22-11	79-24-08	BL-19930218AB
CKLW		O(A)	800 CA ON WINDSOR	LIM:	10.540	RSS: 10.54 910 km
XEROK		O(O)	800 MX CH CD.JUAREZ	LIM:	7.920	RSS: 13.18 2524 km
WPJM		L()	800 US SC GREER	LIM:	7.708	RSS: 15.27 268 km
50% Exclusion RSS 15.27 mV/m						
WJAT		L()	800 US GA SWAINSBORO	LIM:	7.188	RSS: 16.88 339 km
WKBC		L()	800 US NC NORTH WILKESBORO	LIM:	6.886	RSS: 18.23 256 km
WSVS		L(A)	800 US VA CREWE	LIM:	5.607	RSS: 19.07 333 km
25% Exclusion RSS 19.07 mV/m Requires Protection of 4.768 mV/m						
WDEH		L()	800 US TN SWEETWATER	LIC. NEXT	4.223	481 km

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WPJM	B	L()	US SC GREER	34-56-59	82-14-43	BL-19860228AB
XEROK		O(O)	800 MX CH CD.JUAREZ	LIM:	9.794	RSS: 9.79 2265 km
WJAT		L()	800 US GA SWAINSBORO	LIM:	8.609	RSS: 13.04 263 km
WDEH		L()	800 US TN SWEETWATER	LIM:	7.979	RSS: 15.29 214 km
WKBC		L()	800 US NC NORTH WILKESBORO	LIM:	7.848	RSS: 17.18 170 km
50% Exclusion RSS 17.18 mV/m						
WDSC		L(AUU)	800 US SC DILLON	LIM:	7.612	RSS: 18.79 268 km
CKLW		O(A)	800 CA ON WINDSOR	LIM:	6.839	RSS: 20.00 793 km
25% Exclusion RSS 20.00 mV/m Requires Protection of 5.000 mV/m						
WSVS		L(A)	800 US VA CREWE	LIC. NEXT	4.301	443 km
WDEH	B	L()	US TN SWEETWATER	35-36-49	84-27-33	BL-
XEROK		O(O)	800 MX CH CD.JUAREZ	LIM:	11.594	RSS: 11.59 2070 km
WPJM		L()	800 US SC GREER	LIM:	8.578	RSS: 14.42 214 km
50% Exclusion RSS 14.42 mV/m						
WJAT		L()	800 US GA SWAINSBORO	LIM:	6.341	RSS: 15.75 388 km
CKLW		O(A)	800 CA ON WINDSOR	LIM:	6.145	RSS: 16.91 727 km
WKBC		L()	800 US NC NORTH WILKESBORO	LIM:	6.119	RSS: 17.98 306 km
WDSC		L(AUU)	800 US SC DILLON	LIM:	4.504	RSS: 18.54 481 km
25% Exclusion RSS 18.54 mV/m Requires Protection of 4.504 mV/m						
WSHO		L()	800 US LA NEW ORLEANS	LIC. NEXT	4.204	831 km
WSVS	B	L(A)	US VA CREWE	37-11-43	78-10-01	BL-
CKLW		O(A)	800 CA ON WINDSOR	LIM:	28.596	RSS: 28.60 681 km
50% Exclusion RSS 28.60 mV/m						
WTMR		L(A)	800 US NJ CAMDEN	LIM:	7.429	RSS: 29.55 403 km
25% Exclusion RSS 29.55 mV/m Requires Protection of 7.386 mV/m						
XEROK		O(O)	800 MX CH CD.JUAREZ	LIC. NEXT	6.764	2647 km
WDUX	B	L()	US WI WAUPACA	44-21-15	89-03-29	BL-
XEROK		O(O)	800 MX CH CD.JUAREZ	LIM:	10.045	RSS: 10.05 2061 km
CKLW		O(A)	800 CA ON WINDSOR	LIM:	9.492	RSS: 13.82 553 km
50% Exclusion RSS 13.82 mV/m						
25% Exclusion RSS 13.82 mV/m Requires Protection of 3.455 mV/m						
WVAL		L()	800 US MN SAUK RAPIDS	LIC. NEXT	3.293	423 km

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810 kHz RSS Protection Limits 25% & 50% Exclusion
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ZYL202	B	O()	BR NO AIMORES	19-30-00	41-04-00	-	
ZYH472	O()		810 BR NO JEQUIE	LIM:	3.254	RSS:	3.25 715 km
ZYK655	O()		810 BR NO SANTOS	LIM:	2.463	RSS:	4.08 672 km
CX14	O()		810 UY NO MONTEVIDEO 1	LIM:	2.399	RSS:	4.73 2230 km
50% Exclusion RSS 4.73 mV/m Requires Protection of 2.367 mV/m							
ZYL266	O()		810 BR NO NEPOMUCENO	LIC. NEXT	1.223		504 km
ALLOC	C	P()	BR NO ALTA FLOREST	-9-52-00	56-05-00	-	
HJCY	O()		810 CO NO BOGOTA 22	LIM:	2.884	RSS:	2.88 2461 km
50% Exclusion RSS 2.88 mV/m Requires Protection of 2.000 mV/m							
CX14	O()		810 UY NO MONTEVIDEO 1	LIC. NEXT	1.342		2787 km
ALLOC	C	P()	BR NO CAPINOPOLIS	18-41-00	49-34-00	-	
CX14	O()		810 UY NO MONTEVIDEO 1	LIM:	3.894	RSS:	3.89 1891 km
ZYK655	O()		810 BR NO SANTOS	LIM:	2.564	RSS:	4.66 628 km
ZYK732	O()		810 BR NO S J DO R PRE	LIM:	2.342	RSS:	5.22 211 km
50% Exclusion RSS 5.22 mV/m Requires Protection of 2.342 mV/m							
ZYH767	O()		810 BR NO RIALMA	LIC. NEXT	2.211		291 km
ZYH589	A	O()	BR NO FORTALEZA 1	-3-45-00	38-33-00	-	
ZYH472			CLASS-A 0.5 mV/m Contour protected on ALL points				
ALLOC	C	P()	BR NO ITAOBIM	16-34-00	41-30-00	-	
ZYH472	O()		810 BR NO JEQUIE	LIM:	4.104	RSS:	4.10 395 km
ZYL202	O()		810 BR NO AIMORES	LIM:	3.194	RSS:	5.20 342 km
50% Exclusion RSS 5.20 mV/m Requires Protection of 2.600 mV/m							
ZYK655	O()		810 BR NO SANTOS	LIC. NEXT	1.856		891 km
ZYH472	B	O()	BR NO JEQUIE	13-51-27	40-05-01	-	
ZYH589	O()		810 BR NO FORTALEZA 1	LIM:	2.914	RSS:	2.91 1113 km
ZYL202	O()		810 BR NO AIMORES	LIM:	2.293	RSS:	3.71 715 km
50% Exclusion RSS 3.71 mV/m Requires Protection of 2.000 mV/m							
CX14	O()		810 UY NO MONTEVIDEO 1	LIC. NEXT	1.255		2864 km
ZYK604	B	O()	BR NO JUNDIAI	23-10-00	46-54-00	-	
CX14	O()		810 UY NO MONTEVIDEO 1	LIM:	8.534	RSS:	8.53 1476 km
50% Exclusion RSS 8.53 mV/m Requires Protection of 4.267 mV/m							
ZYK655	O()		810 BR NO SANTOS	LIC. NEXT	3.448		107 km
ZYL266	C	O()	BR NO NEPOMUCENO	21-14-00	45-14-00	-	
CX14	O()		810 UY NO MONTEVIDEO 1	LIM:	4.848	RSS:	4.85 1763 km
ZYK655	O()		810 BR NO SANTOS	LIM:	3.419	RSS:	5.93 179 km
50% Exclusion RSS 5.93 mV/m Requires Protection of 2.966 mV/m							
ZYL202	O()		810 BR NO AIMORES	LIC. NEXT	2.770		504 km
ALLOC	C	P()	BR NO PATROCINIO	18-57-00	47-00-00	-	
ZYK655	O()		810 BR NO SANTOS	LIM:	2.704	RSS:	2.70 561 km
ZYH472	O()		810 BR NO JEQUIE	LIM:	2.478	RSS:	3.67 922 km
ZYL202	O()		810 BR NO AIMORES	LIM:	2.460	RSS:	4.42 648 km
50% Exclusion RSS 4.42 mV/m Requires Protection of 2.209 mV/m							
ZYH767	O()		810 BR NO RIALMA	LIC. NEXT	2.048		381 km

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ALLOC	C	P()	BR NO PORTO NACION	10-42-00	48-25-00	-
ZYH472	O()		810 BR NO JEQUIE	LIM:	2.355	RSS: 2.50 963 km
ZYH589	O()		810 BR NO FORTALEZA 1	LIM:	1.946	RSS: 3.05 1343 km
ZYH767	O()		810 BR NO RIALMA	LIM:	1.685	RSS: 3.49 612 km
50% Exclusion RSS 3.49 mV/m Requires Protection of 1.685 mV/m						
HJCY	O()		810 CO NO BOGOTA 22	LIC. NEXT	1.470	3250 km
ALLOC	C	P()	BR NO PROPRIA	10-13-00	36-50-00	-
ZYH589	O()		810 BR NO FORTALEZA 1	LIM:	4.276	RSS: 4.28 859 km
ZYH472	O()		810 BR NO JEQUIE	LIM:	3.995	RSS: 5.85 441 km
50% Exclusion RSS 5.85 mV/m Requires Protection of 2.926 mV/m						
ZYL202	O()		810 BR NO AIMORES	LIC. NEXT	1.392	1071 km
ZYH767	B	O()	BR NO RIALMA	15-19-00	49-35-00	-
CX14	O()		810 UY NO MONTEVIDEO 1	LIM:	2.600	RSS: 2.60 2168 km
ZYH472	O()		810 BR NO JEQUIE	LIM:	2.019	RSS: 3.29 1065 km
ZYK655	O()		810 BR NO SANTOS	LIM:	1.861	RSS: 3.78 890 km
50% Exclusion RSS 3.78 mV/m Requires Protection of 1.861 mV/m						
ZYK732	O()		810 BR NO S J DO R PRE	LIC. NEXT	1.825	505 km
ALLOC	C	P()	BR NO S JOSE R CLA	13-27-00	56-43-00	-
HJCY	O()		810 CO NO BOGOTA 22	LIM:	2.249	RSS: 2.50 2718 km
CX14	O()		810 UY NO MONTEVIDEO 1	LIM:	2.201	RSS: 3.15 2296 km
50% Exclusion RSS 3.15 mV/m Requires Protection of 2.000 mV/m						
ZYH767	O()		810 BR NO RIALMA	LIC. NEXT	1.354	806 km
ALLOC	C	P()	BR NO S M DA VITOR	13-25-00	44-12-00	-
ZYH472	O()		810 BR NO JEQUIE	LIM:	3.969	RSS: 3.97 450 km
ZYL202	O()		810 BR NO AIMORES	LIM:	2.224	RSS: 4.55 738 km
50% Exclusion RSS 4.55 mV/m Requires Protection of 2.224 mV/m						
ZYH589	O()		810 BR NO FORTALEZA 1	LIC. NEXT	2.080	1306 km
ZYK655	C	O()	BR NO SANTOS	23-57-00	46-17-00	-
CX14	O()		810 UY NO MONTEVIDEO 1	LIM:	6.915	RSS: 6.91 1583 km
50% Exclusion RSS 6.91 mV/m Requires Protection of 3.457 mV/m						
ZYL202	O()		810 BR NO AIMORES	LIC. NEXT	2.404	672 km
NEW	C	O()	BF NO FREEPORT	26-32-00	78-45-00	-C6B3
HJCY	O()		810 CO NO BOGOTA 22	LIM:	2.841	RSS: 2.84 2479 km
WGY	L()		810 US NY SCHENECTADY	LIM:	2.837	RSS: 4.01 1858 km
TGMM	O()		810 GT NO RADIOMOPAN	LIM:	2.030	RSS: 4.50 1505 km
50% Exclusion RSS 4.50 mV/m Requires Protection of 2.030 mV/m						
YVLP	O()		810 VE NO VALENCIA 1	LIC. NEXT	1.499	2141 km
CP 188	B	O()	BL NO WARNES	17-30-00	63-09-00	-
CX14	O()		810 UY NO MONTEVIDEO 1	LIM:	3.359	RSS: 3.36 1979 km
HJCY	O()		810 CO NO BOGOTA 22	LIM:	2.401	RSS: 4.13 2647 km
50% Exclusion RSS 4.13 mV/m Requires Protection of 2.064 mV/m						
YVLP	O()		810 VE NO VALENCIA 1	LIC. NEXT	0.620	3012 km

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HJCY	A	O()	CO NO BOGOTA 22	4-40-00	74-11-00	-	
	YVLP		CLASS-A 0.5 mV/m Contour protected on ALL points				
CMMB	B	P()	CU NO GUANTANAMO	20-09-00	75-10-00	-	
HJCY		O()	810 CO NO BOGOTA 22	LIM:	8.194	RSS:	8.19 1725 km
YVLP		O()	810 VE NO VALENCIA 1	LIM:	6.083	RSS:	10.21 1350 km
			50% Exclusion RSS 10.21 mV/m Requires Protection of 5.103 mV/m				
WKVM	L()		810 US PR SAN JUAN	LIC. NEXT	3.683		968 km
HCVT2	C	O()	EC NO ATALAYA	-2-09-20	79-34-04	-	
HJCY		O()	810 CO NO BOGOTA 22	LIM:	32.585	RSS:	32.59 939 km
			50% Exclusion RSS 32.59 mV/m Requires Protection of 16.293 mV/m				
YVLP		O()	810 VE NO VALENCIA 1	LIC. NEXT	2.327		1850 km
HCDE2	B	O()	EC NO GUAYAQUIL	-2-12-00	79-53-00	-	
HJCY		O()	810 CO NO BOGOTA 22	LIM:	31.851	RSS:	31.85 958 km
			50% Exclusion RSS 31.85 mV/m Requires Protection of 15.925 mV/m				
YVLP		O()	810 VE NO VALENCIA 1	LIC. NEXT	2.247		1871 km
ALLOC	A	P()	GL NO UPERNAVIK	72-47-02	56-18-05	-	
	WGY		CLASS-A 0.5 mV/m Contour protected on ALL points				
TGMM	A	O()	GT NO RADIOMOPAN	17-03-00	89-10-00	-	
	YSAX		CLASS-A 0.5 mV/m Contour protected on ALL points				
HRLP 24	C	O()	HO NO CHOLUTECA 4	13-17-00	87-18-00	-	
YSAX		O()	810 ES NO SAN SALVADOR	LIM:	11.649	RSS:	11.65 211 km
TGMM		O()	810 GT NO RADIOMOPAN	LIM:	9.163	RSS:	14.82 464 km
HJCY		O()	810 CO NO BOGOTA 22	LIM:	8.133	RSS:	16.91 1729 km
			50% Exclusion RSS 16.91 mV/m Requires Protection of 8.133 mV/m				
YSFA		O()	810 ES NO SAN VICENTE	LIC. NEXT	3.872		167 km
HOG	C	O()	PM NO RADIO MUNDIA	8-59-15	79-32-22	-	
HJCY		O()	810 CO NO BOGOTA 22	LIM:	40.308	RSS:	40.31 762 km
			50% Exclusion RSS 40.31 mV/m Requires Protection of 20.154 mV/m				
YVLP		O()	810 VE NO VALENCIA 1	LIC. NEXT	7.007		1272 km
YSAX	A	O()	ES NO SAN SALVADOR	13-43-00	89-12-00	-	
	TGMM		CLASS-A 0.5 mV/m Contour protected on ALL points				
YSFA	A	O()	ES NO SAN VICENTE	13-37-00	88-48-00	-	
	TGMM		CLASS-A 0.5 mV/m Contour protected on ALL points				
CX14	A	O()	UY NO MONTEVIDEO 1	34-48-00	56-19-00	-	
	HJCY		CLASS-A 0.5 mV/m Contour protected on ALL points				
YVLP	A	O()	VE NO VALENCIA 1	10-10-00	68-00-00	-	
	HJCY		CLASS-A 0.5 mV/m Contour protected on ALL points				
XENVA2	B	P(O)	MX CH NUEVO CASAS GRAN	30-21-55	107-58-42	-	
KGO		L()	810 US CA SAN FRANCISCO	LIM:	11.551	RSS:	11.55 1524 km
			50% Exclusion RSS 11.55 mV/m Requires Protection of 5.776 mV/m				
XEIM		O(O)	810 MX CI SALTILLO	LIC. NEXT	2.987		875 km

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XEIM	B	O(O)	MX CI SALTILLO	25-27-58	101-00-10	-	
XEYM		O(O)	810 MX MC MORELIA	LIM:	5.834	RSS:	5.83 641 km
KSJL		L(AUU)	810 US TX SOMERSET	LIM:	5.232	RSS:	7.84 494 km
TGMM		O()	810 GT NO RADIOMOPAN	LIM:	4.753	RSS:	9.16 1541 km
50% Exclusion RSS 9.16 mV/m Requires Protection of 4.582 mV/m							
KXOI		L()	810 US TX CRANE	LIC. NEXT	3.701		681 km
XEMAX1	B	P(O)	MX CL ARMERIA	18-56-13	103-56-57	-	
XEYM		O(O)	810 MX MC MORELIA	LIM:	7.997	RSS:	8.00 302 km
TGMM		O()	810 GT NO RADIOMOPAN	LIM:	4.416	RSS:	9.13 1577 km
50% Exclusion RSS 9.13 mV/m Requires Protection of 4.416 mV/m							
XEHT		O(O)	810 MX TL HUAMANTLA	LIC. NEXT	4.196		634 km
XEIN	B	O(A)	MX CS CINTALAPA	16-41-25	93-42-33	-	
TGMM		O()	810 GT NO RADIOMOPAN	LIM:	22.582	RSS:	22.58 485 km
YSAX		O()	810 ES NO SAN SALVADOR	LIM:	20.784	RSS:	30.69 586 km
50% Exclusion RSS 30.69 mV/m Requires Protection of 15.345 mV/m							
XEOE		O(A)	810 MX CS TAPACHULA	LIC. NEXT	8.446		253 km
XEOE	B	O(A)	MX CS TAPACHULA	14-53-39	92-14-49	-	
YSAX		O()	810 ES NO SAN SALVADOR	LIM:	25.538	RSS:	25.54 354 km
TGMM		O()	810 GT NO RADIOMOPAN	LIM:	24.319	RSS:	35.26 407 km
50% Exclusion RSS 35.26 mV/m Requires Protection of 17.632 mV/m							
HJCY		O()	810 CO NO BOGOTA 22	LIC. NEXT	8.894		2280 km
XEAGR	B	P(A)	MX GR ACAPULCO	16-49-42	99-51-22	-	
TGMM		O()	810 GT NO RADIOMOPAN	LIM:	9.916	RSS:	9.92 1137 km
YSAX		O()	810 ES NO SAN SALVADOR	LIM:	9.007	RSS:	13.40 1194 km
XEYM		O(O)	810 MX MC MORELIA	LIM:	7.620	RSS:	15.41 348 km
50% Exclusion RSS 15.41 mV/m Requires Protection of 7.620 mV/m							
XEHT		O(O)	810 MX TL HUAMANTLA	LIC. NEXT	5.456		342 km
XEYM	B	O(O)	MX MC MORELIA	19-42-16	101-11-30	-	
TGMM		O()	810 GT NO RADIOMOPAN	LIM:	7.451	RSS:	7.45 1302 km
YSAX		O()	810 ES NO SAN SALVADOR	LIM:	5.772	RSS:	9.43 1439 km
XEHT		O(O)	810 MX TL HUAMANTLA	LIM:	5.436	RSS:	10.88 346 km
50% Exclusion RSS 10.88 mV/m Requires Protection of 5.436 mV/m							
XEIM		O(O)	810 MX CI SALTILLO	LIC. NEXT	4.009		641 km
XEUX	B	O(A)	MX NA TUXPAN	21-55-00	105-15-22	-	
XEYM		O(O)	810 MX MC MORELIA	LIM:	6.650	RSS:	6.65 489 km
KXOI		L()	810 US TX CRANE	LIM:	5.287	RSS:	8.50 1102 km
XERSV1		P(A)	810 MX SO CD.OBREGON	LIM:	4.490	RSS:	9.61 781 km
50% Exclusion RSS 9.61 mV/m Requires Protection of 4.490 mV/m							
XEIM		O(O)	810 MX CI SALTILLO	LIC. NEXT	4.218		586 km
XERB1	B	P(O)	MX QR COZUMEL	20-28-22	86-53-54	-	
TGMM		O()	810 GT NO RADIOMOPAN	LIM:	23.352	RSS:	23.35 448 km
YSAX		O()	810 ES NO SAN SALVADOR	LIM:	16.614	RSS:	28.66 790 km
50% Exclusion RSS 28.66 mV/m Requires Protection of 14.330 mV/m							
HJCY		O()	810 CO NO BOGOTA 22	LIC. NEXT	9.480		2231 km

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XE B P(O) MX QR FELIPE CARRILLO 19-38-27 88-04-00 -
TGMM O() 810 GT NO RADIOMOPAN LIM: 26.694 RSS: 26.69 309 km
YSAX O() 810 ES NO SAN SALVADOR LIM: 19.230 RSS: 32.90 670 km
50% Exclusion RSS 32.90 mV/m Requires Protection of 16.450 mV/m
HJCY O() 810 CO NO BOGOTA 22 LIC. NEXT 9.327 2243 km

XERSV1 B P(A) MX SO CD.OBREGON 27-30-50 109-56-08 -
KGO L() 810 US CA SAN FRANCISCO LIM: 13.997 RSS: 14.00 1591 km
50% Exclusion RSS 14.00 mV/m Requires Protection of 6.998 mV/m
KXOI L() 810 US TX CRANE LIC. NEXT 4.085 857 km

XENVA2 B P(O) MX SO SAN LUIS RIO COL 31-19-00 110-58-00 -
KGO L() 810 US CA SAN FRANCISCO LIM: 21.892 RSS: 21.89 1231 km
50% Exclusion RSS 21.89 mV/m Requires Protection of 10.946 mV/m
XEIM O(O) 810 MX CI SALTILLO LIC. NEXT 1.887 1171 km

XENVA2 B P(O) MX SO SAN LUIS RIO COL 32-28-48 114-46-24 -
KGO L() 810 US CA SAN FRANCISCO LIM: 44.838 RSS: 44.84 871 km
50% Exclusion RSS 44.84 mV/m Requires Protection of 22.419 mV/m
HJCY O() 810 CO NO BOGOTA 22 LIC. NEXT 1.323 5224 km

XERI B O(O) MX TA REYNOSA 26-04-15 98-15-28 -
TGMM O() 810 GT NO RADIOMOPAN LIM: 6.535 RSS: 6.53 1374 km
XEIM O(O) 810 MX CI SALTILLO LIM: 5.660 RSS: 8.64 283 km
XEYM O(O) 810 MX MC MORELIA LIM: 5.024 RSS: 10.00 769 km
50% Exclusion RSS 10.00 mV/m Requires Protection of 4.999 mV/m
WHB L() 810 US MO KANSAS CITY LIC. NEXT 4.603 1511 km

XEFW1 B P(O) MX TA TAMPICO 22-13-05 97-51-07 -
TGMM O() 810 GT NO RADIOMOPAN LIM: 11.000 RSS: 11.00 1075 km
YSAX O() 810 ES NO SAN SALVADOR LIM: 7.283 RSS: 13.19 1315 km
XEYM O(O) 810 MX MC MORELIA LIM: 6.931 RSS: 14.90 445 km
50% Exclusion RSS 14.90 mV/m Requires Protection of 6.931 mV/m
XEHT O(O) 810 MX TL HUAMANTLA LIC. NEXT 5.576 322 km

XEHT1 B P(O) MX TL HUAMANTLA 19-17-09 97-54-53 -
TGMM O() 810 GT NO RADIOMOPAN LIM: 13.188 RSS: 13.19 957 km
YSAX O() 810 ES NO SAN SALVADOR LIM: 10.303 RSS: 16.74 1116 km
50% Exclusion RSS 16.74 mV/m Requires Protection of 8.368 mV/m
XEYM O(O) 810 MX MC MORELIA LIC. NEXT 7.631 347 km

XEMQ1 B P(O) MX YC MERIDA 21-01-23 89-33-48 -
TGMM O() 810 GT NO RADIOMOPAN LIM: 23.506 RSS: 23.51 442 km
YSAX O() 810 ES NO SAN SALVADOR LIM: 16.153 RSS: 28.52 813 km
50% Exclusion RSS 28.52 mV/m Requires Protection of 14.261 mV/m
HJCY O() 810 CO NO BOGOTA 22 LIC. NEXT 7.233 2462 km

XEZC B P(O) MX ZA RIO GRANDE 23-49-46 103-02-17 -
XEYM O(O) 810 MX MC MORELIA LIM: 6.599 RSS: 6.60 497 km
KXOI L() 810 US TX CRANE LIM: 6.252 RSS: 9.09 853 km
XEIM O(O) 810 MX CI SALTILLO LIM: 5.711 RSS: 10.74 274 km
50% Exclusion RSS 10.74 mV/m Requires Protection of 5.368 mV/m
XERSV1 P(A) 810 MX SO CD.OBREGON LIC. NEXT 4.332 803 km

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WHB	B	L()	US MO KANSAS CITY	39-18-21	94-34-30	BL-19810706AA	
WGY		L()	810 US NY SCHENECTADY	LIM:	6.407	RSS:	6.41 1763 km
WBAP		L()	820 US TX FORT WORTH	LIM:	3.431	RSS:	7.27 780 km
50% Exclusion RSS 7.27 mV/m							
WDDD		L()	810 US IL JOHNSTON CITY	LIM:	2.710	RSS:	7.76 521 km
XEROK		O(O)	800 MX CH CD.JUAREZ	LIM:	2.405	RSS:	8.12 1361 km
25% Exclusion RSS 8.12 mV/m Requires Protection of 2.030 mV/m							
KXOI		L()	810 US TX CRANE	LIC. NEXT	1.802		1118 km
ZYK732	B	O()	BR NO S J DO R PRE	20-47-00	49-22-00	-	
CX14		O()	810 UY NO MONTEVIDEO 1	LIM:	5.444	RSS:	5.44 1701 km
ZYK655		O()	810 BR NO SANTOS	LIM:	2.939	RSS:	6.19 449 km
50% Exclusion RSS 6.19 mV/m Requires Protection of 2.939 mV/m							
ZYL202		O()	810 BR NO AIMORES	LIC. NEXT	1.851		877 km
KSJL	B	L(AUU)	US TX SOMERSET	29-18-48	98-30-29	BL-20001106ABM	
KXOI		L()	810 US TX CRANE	LIM:	7.467	RSS:	7.47 439 km
WBAP		L()	820 US TX FORT WORTH	LIM:	6.977	RSS:	10.22 388 km
XEROK		O(O)	800 MX CH CD.JUAREZ	LIM:	5.782	RSS:	11.74 799 km
50% Exclusion RSS 11.74 mV/m							
WHB		L()	810 US MO KANSAS CITY	LIM:	5.305	RSS:	12.88 1168 km
XEIM		O(O)	810 MX CI SALTILLO	LIM:	4.924	RSS:	13.79 494 km
WGY		L()	810 US NY SCHENECTADY	LIM:	3.695	RSS:	14.28 2648 km
25% Exclusion RSS 14.28 mV/m Requires Protection of 3.570 mV/m							
XERI		O(O)	810 MX TA REYNOSA	LIC. NEXT	3.196		361 km
XEMAX	B	P(O)	MX CL TECOMAN	18-56-06	103-53-21	-	
XEYM		O(O)	810 MX MC MORELIA	LIM:	8.046	RSS:	8.05 296 km
TGMM		O()	810 GT NO RADIOMOPAN	LIM:	4.475	RSS:	9.21 1570 km
50% Exclusion RSS 9.21 mV/m Requires Protection of 4.475 mV/m							
XEHT		O(O)	810 MX TL HUAMANTLA	LIC. NEXT	4.220		628 km
WEUS	B	C()	US FL ORLOVISTA	28-33-39	81-30-23	BNP-20001023ACZ	
WGY		L()	810 US NY SCHENECTADY	LIM:	8.942	RSS:	8.94 1719 km
50% Exclusion RSS 8.94 mV/m							
WNSI		L(A)	810 US AL JACKSONVILLE	LIM:	3.266	RSS:	9.52 714 km
25% Exclusion RSS 9.52 mV/m Requires Protection of 2.380 mV/m							
WSJC		L()	810 US MS MAGEE	LIC. NEXT	2.018		868 km
KGO	A	L()	US CA SAN FRANCISCO	37-31-35	122-06-02	BL-19970703AC	
XEROK CLASS-A 0.5 mV/m Contour protected on ALL points							
XEFW	B	O(O)	MX TA TAMPICO	22-13-05	97-51-07	-	
TGMM		O()	810 GT NO RADIOMOPAN	LIM:	11.000	RSS:	11.00 1075 km
YSAX		O()	810 ES NO SAN SALVADOR	LIM:	7.283	RSS:	13.19 1315 km
XEYM		O(O)	810 MX MC MORELIA	LIM:	6.931	RSS:	14.90 445 km
50% Exclusion RSS 14.90 mV/m Requires Protection of 6.931 mV/m							
XEHT		O(O)	810 MX TL HUAMANTLA	LIC. NEXT	5.576		322 km
XEHT	B	O(O)	MX TL HUAMANTLA	19-18-40	97-55-32	-	
TGMM		O()	810 GT NO RADIOMOPAN	LIM:	13.153	RSS:	13.15 959 km
YSAX		O()	810 ES NO SAN SALVADOR	LIM:	10.257	RSS:	16.68 1118 km
50% Exclusion RSS 16.68 mV/m Requires Protection of 8.340 mV/m							
XEYM		O(O)	810 MX MC MORELIA	LIC. NEXT	7.645		346 km

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XEZC B O(O) MX ZA RIO GRANDE 23-49-46 103-02-17 -
XEYM O(O) 810 MX MC MORELIA LIM: 6.599 RSS: 6.60 497 km
KXOI L() 810 US TX CRANE LIM: 6.252 RSS: 9.09 853 km
XEIM O(O) 810 MX CI SALTILLO LIM: 5.711 RSS: 10.74 274 km
50% Exclusion RSS 10.74 mV/m Requires Protection of 5.368 mV/m
XERSV1 P(A) 810 MX SO CD.OBREGON LIC. NEXT 4.332 803 km

WNSI B L(A) US AL JACKSONVILLE 33-50-58 85-45-46 BL-19861125AK
WGY L() 810 US NY SCHENECTADY LIM: 11.374 RSS: 11.37 1426 km
50% Exclusion RSS 11.37 mV/m
25% Exclusion RSS 11.37 mV/m Requires Protection of 2.843 mV/m
WBAP L() 820 US TX FORT WORTH LIC. NEXT 2.252 1069 km

WDDD B L() US IL JOHNSTON CITY 37-51-14 88-52-12 BL-19860415AA
WGY L() 810 US NY SCHENECTADY LIM: 11.071 RSS: 11.07 1372 km
50% Exclusion RSS 11.07 mV/m
25% Exclusion RSS 11.07 mV/m Requires Protection of 2.768 mV/m
WBAP L() 820 US TX FORT WORTH LIC. NEXT 2.602 952 km

WSJC B L() US MS MAGEE 31-52-00 89-41-35 BL-19870609AK
WNSI L(A) 810 US AL JACKSONVILLE LIM: 10.329 RSS: 10.33 428 km
WHB L() 810 US MO KANSAS CITY LIM: 8.295 RSS: 13.25 937 km
WGY L() 810 US NY SCHENECTADY LIM: 7.335 RSS: 15.14 1838 km
50% Exclusion RSS 15.14 mV/m
WBAP L() 820 US TX FORT WORTH LIM: 4.028 RSS: 15.67 708 km
25% Exclusion RSS 15.67 mV/m Requires Protection of 3.917 mV/m
WDDD L() 810 US IL JOHNSTON CITY LIC. NEXT 3.606 670 km

WGY A L() US NY SCHENECTADY 42-47-37 74-00-36 BL-
CKLW CLASS-A 0.5 mV/m Contour protected on ALL points

KXOI B L() US TX CRANE 31-28-39 102-20-24 BL-19810915AN
XEROK O(O) 800 MX CH CD.JUAREZ LIM: 13.002 RSS: 13.00 383 km
50% Exclusion RSS 13.00 mV/m
WBAP L() 820 US TX FORT WORTH LIM: 5.801 RSS: 14.24 504 km
KGO L() 810 US CA SAN FRANCISCO LIM: 3.962 RSS: 14.78 1927 km
25% Exclusion RSS 14.78 mV/m Requires Protection of 3.695 mV/m
WHB L() 810 US MO KANSAS CITY LIC. NEXT 3.586 1118 km

WKVM B L() US PR SAN JUAN 18-21-47 66-08-13 BL-20RC1104FB
WGY L() 810 US NY SCHENECTADY LIM: 4.086 RSS: 4.09 2816 km
50% Exclusion RSS 4.09 mV/m
25% Exclusion RSS 4.09 mV/m Requires Protection of 1.021 mV/m
XEOE O(A) 810 MX CS TAPACHULA LIC. NEXT 0.741 2806 km

NEW B P(A U) CA AB BROOKS 50-29-35 111-53-05 -
KGO L() 810 US CA SAN FRANCISCO LIM: 10.573 RSS: 10.57 1653 km
50% Exclusion RSS 10.57 mV/m Requires Protection of 5.287 mV/m
WHB L() 810 US MO KANSAS CITY LIC. NEXT 2.069 1837 km

810 kHz Page 8

CKJS B O() CA MB WINNIPEG 49-44-07 97-11-36 -
WHB L() 810 US MO KANSAS CITY LIM: 12.854 RSS: 12.85 1178 km
50% Exclusion RSS 12.85 mV/m Requires Protection of 6.427 mV/m
WGY L() 810 US NY SCHENECTADY LIC. NEXT 6.296 1932 km

CJVA B O(A) CA NB CARAQUET 47-46-05 65-03-13 -
WGY L() 810 US NY SCHENECTADY LIM: 38.105 RSS: 38.10 892 km
50% Exclusion RSS 38.10 mV/m Requires Protection of 19.052 mV/m
HJCY O() 810 CO NO BOGOTA 22 LIC. NEXT 1.529 4871 km

Crawford Broadcasting

820 kHz Domestic RSS Protection Limits 25% & 50% Exclusion

Contributors: Licensed/Operating determines limit. FCC DATABASE: 11/ 2003

KUTR B C() US UT TAYLORSVILLE 40-19-46 112-04-11 BNP-20001023ABW
WBAP L() 820 US TX FORT WORTH LIM: 11.302 RSS: 11.30 1582 km
50% Exclusion RSS 11.30 mV/m
25% Exclusion RSS 11.30 mV/m Requires Protection of 2.826 mV/m
XEVMs O(A) 820 MX BN MEXICALI LIC. NEXT 0.931 912 km

WNYC B L() US NY NEW YORK 40-45-10 74-06-15 BML-20030411ACV
WXTR L(AUU) 820 US MD FREDERICK LIM: 10.835 RSS: 10.83 323 km
WCRN C() 830 US MA WORCESTER LIM: 7.325 RSS: 13.08 246 km
WGY L() 810 US NY SCHENECTADY LIM: 7.257 RSS: 14.96 227 km
50% Exclusion RSS 14.96 mV/m
WWLZ L(A) 820 US NY HORSEHEADS LIM: 5.564 RSS: 15.96 277 km
WGGM L(A) 820 US VA CHESTER LIM: 5.321 RSS: 16.82 472 km
WBAP L() 820 US TX FORT WORTH LIM: 5.272 RSS: 17.63 2238 km
25% Exclusion RSS 17.63 mV/m Requires Protection of 4.407 mV/m
WEEU L() 830 US PA READING LIC. NEXT 2.556 172 km

KCBF A L(UUU) US AK FAIRBANKS 64-52-44 147-40-06 BL-19980120AD
KGNW CLASS-A 0.1 mV/m Contour protected on ALL points

WMGG B L(A) US FL LARGO 27-54-30 82-46-51 BL-19870219AA
WBAP L() 820 US TX FORT WORTH LIM: 14.067 RSS: 14.07 1476 km
50% Exclusion RSS 14.07 mV/m
25% Exclusion RSS 14.07 mV/m Requires Protection of 3.517 mV/m
WTRU L(A) 830 US NC KERNERSVILLE LIC. NEXT 1.118 953 km

WXTR B L(AUU) US MD FREDERICK 39-24-42 77-28-20 BL-19910827AC
WBAP L() 820 US TX FORT WORTH LIM: 7.474 RSS: 7.47 1921 km
WWLZ L(A) 820 US NY HORSEHEADS LIM: 5.640 RSS: 9.36 309 km
WGY L() 810 US NY SCHENECTADY LIM: 5.325 RSS: 10.77 475 km
50% Exclusion RSS 10.77 mV/m
WGGM L(A) 820 US VA CHESTER LIM: 4.136 RSS: 11.54 226 km
WOSU L(AUU) 820 US OH COLUMBUS LIM: 3.957 RSS: 12.20 481 km
CHAM O(B) 820 CA ON HAMILTON LIM: 3.566 RSS: 12.71 455 km
WCRN C() 830 US MA WORCESTER LIM: 3.179 RSS: 13.10 563 km
25% Exclusion RSS 13.10 mV/m Requires Protection of 3.179 mV/m
WNYC L() 820 US NY NEW YORK LIC. NEXT 1.414 323 km

WWLZ B L(A) US NY HORSEHEADS 42-09-14 76-50-47 BL-19871218AD
WXTR L(AUU) 820 US MD FREDERICK LIM: 8.849 RSS: 8.85 309 km
WGY L() 810 US NY SCHENECTADY LIM: 7.263 RSS: 11.45 243 km
WBAP L() 820 US TX FORT WORTH LIM: 5.992 RSS: 12.92 2077 km
50% Exclusion RSS 12.92 mV/m
WOSU L(AUU) 820 US OH COLUMBUS LIM: 4.966 RSS: 13.84 577 km
WCRN C() 830 US MA WORCESTER LIM: 4.497 RSS: 14.55 405 km
25% Exclusion RSS 14.55 mV/m Requires Protection of 3.639 mV/m
WGGM L(A) 820 US VA CHESTER LIC. NEXT 2.136 533 km

WOSU B L(AUU) US OH COLUMBUS 39-54-35 83-03-23 BL-19881021AA
WBAP L() 820 US TX FORT WORTH LIM: 11.928 RSS: 11.93 1500 km
50% Exclusion RSS 11.93 mV/m
25% Exclusion RSS 11.93 mV/m Requires Protection of 2.982 mV/m
WGY L() 810 US NY SCHENECTADY LIC. NEXT 2.574 820 km

820 kHz Page 2

WBAP A L() US TX FORT WORTH 32-36-38 97-10-00 BL-19800125AB
XESB CLASS-A 0.5 mV/m Contour protected on ALL points

WGGM B L(A) US VA CHESTER 37-22-58 77-25-41 BL-19880513AB
WBAP L() 820 US TX FORT WORTH LIM: 8.177 RSS: 8.18 1870 km
WXTR L(AUU) 820 US MD FREDERICK LIM: 6.351 RSS: 10.35 226 km
50% Exclusion RSS 10.35 mV/m
WOSU L(AUU) 820 US OH COLUMBUS LIM: 4.344 RSS: 11.23 564 km
WGY L() 810 US NY SCHENECTADY LIM: 3.635 RSS: 11.80 668 km
WWLZ L(A) 820 US NY HORSEHEADS LIM: 3.583 RSS: 12.33 533 km
25% Exclusion RSS 12.33 mV/m Requires Protection of 3.083 mV/m
CHAM O(B) 820 CA ON HAMILTON LIC. NEXT 2.630 668 km

KGNW B L(A) US WA BURIEN-SEATTLE 47-26-00 122-28-02 BL-19851203AD
WBAP L() 820 US TX FORT WORTH LIM: 3.362 RSS: 3.36 2691 km
KGO L() 810 US CA SAN FRANCISCO LIM: 3.013 RSS: 4.51 1102 km
50% Exclusion RSS 4.51 mV/m
25% Exclusion RSS 4.51 mV/m Requires Protection of 1.129 mV/m
KUTR C() 820 US UT TAYLORSVILLE LIC. NEXT 1.072 1146 km

Crawford Broadcasting
Maximum Nighttime Inverse Distance Fields
KLDC 39-50-36 104-57-08 810 kHz

Call	Freq	km	azm	Req-Pro	θ-min	θ-max	Max IDF
KGO -140	810	1568.8	210.3	0.500	1.71	5.12	112.2
KGO -145	810	1708.3	210.7	0.500	0.96	4.11	128.6
KGO -135	810	1427.3	210.9	0.500	2.54	6.28	96.5
KGO -150	810	1842.3	211.9	0.500	0.31	3.23	145.5
KGO -130	810	1290.4	212.8	0.500	3.46	7.58	82.5
KGO -155	810	1967.7	213.7	0.500	0.00	2.48	162.2
KGO -160	810	2081.0	215.9	0.500	0.00	1.85	178.1
KGO -125	810	1166.4	216.2	0.500	4.40	8.94	70.6
KGO -165	810	2180.8	218.5	0.500	0.00	1.33	192.6
KGO -170	810	2264.1	221.4	0.500	0.00	0.91	205.1
KGO -120	810	1064.0	221.5	0.500	5.30	10.26	61.5
KGO -175	810	2329.3	224.5	0.500	0.00	0.60	216.1
KGO -180	810	2374.6	227.8	0.500	0.00	0.39	225.1
KGO -115	810	994.9	228.9	0.500	5.99	11.26	55.8
KGO -185	810	2398.6	231.2	0.500	0.00	0.28	231.1
KGO -190	810	2400.3	234.8	0.500	0.00	0.00	233.4
KGO -110	810	974.2	238.0	0.500	6.21	11.58	54.4
KGO -195	810	2381.3	238.4	0.500	0.00	0.36	232.6
KGO -200	810	2340.0	242.1	0.500	0.00	0.55	228.4
KGO -205	810	2275.7	245.9	0.500	0.00	0.86	220.7
KGO -105	810	1018.0	247.8	0.500	5.75	10.91	59.0
KGO -210	810	2181.8	249.7	0.500	0.00	1.33	208.3
KGO -215	810	2054.9	253.7	0.500	0.00	2.00	190.9
KGO -100	810	1124.0	256.1	0.500	4.76	9.46	69.9
KGO -220	810	1906.7	257.6	0.500	0.02	2.84	170.4
KGO -225	810	1737.4	261.4	0.500	0.82	3.91	147.2
KGO -095	810	1269.2	261.6	0.500	3.61	7.80	86.3
KGO -230	810	1725.5	262.3	0.500	0.88	3.99	146.0
KGO -235	810	1736.0	262.9	0.500	0.83	3.92	147.9
KGO -090	810	1285.3	262.9	0.500	3.49	7.63	88.4
KGO -240	810	1747.7	263.6	0.500	0.77	3.84	150.0
KGO -085	810	1278.9	263.8	0.500	3.54	7.70	87.9
KGO -245	810	1757.7	264.2	0.500	0.72	3.77	152.0
KGO -080	810	1274.8	264.7	0.500	3.57	7.74	87.7
KGO -250	810	1760.0	264.9	0.500	0.71	3.76	152.8
KGO -075	810	1271.1	265.6	0.500	3.59	7.78	87.4
KGO -255	810	1755.7	265.7	0.500	0.73	3.79	152.6
KGO -260	810	1747.0	266.4	0.500	0.77	3.85	151.8
KGO -070	810	1277.6	266.5	0.500	3.55	7.71	88.4
KGO -265	810	1745.6	267.1	0.500	0.78	3.85	152.0
KGO -065	810	1296.5	267.3	0.500	3.41	7.52	90.8
KGO -060	810	1300.5	268.1	0.500	3.38	7.47	91.5
KGO -270	810	1814.7	268.3	0.500	0.44	3.41	163.8
KGO -055	810	1300.2	269.0	0.500	3.39	7.48	91.7
KGO -275	810	2032.9	271.1	0.500	0.00	2.12	204.2
KGO -050	810	1205.1	272.5	0.500	4.09	8.49	81.5
KGO -280	810	2232.4	274.2	0.500	0.00	1.07	248.2
KGO -285	810	2372.1	277.4	0.500	0.00	0.40	285.7
KGO -045	810	1073.8	280.1	0.500	5.21	10.12	68.4
KGO -290	810	2460.6	280.4	0.500	0.00	0.00	315.5

Call	Freq	km	azm	Req-Pro	θ-min	θ-max	Max	IDF
KGO -295	810	2506.6	283.3	0.500	0.00	0.00	337.3	
KGO -300	810	2516.8	286.1	0.500	0.00	0.00	350.7	
KGO -040	810	1027.7	287.7	0.500	5.65	10.77	64.8	
KGO -305	810	2502.3	288.7	0.500	0.00	0.00	357.5	
KGO -310	810	2470.2	291.2	0.500	0.00	0.00	358.9	
KGO -315	810	2424.8	293.7	0.500	0.00	0.00	355.7	
KGO -035	810	1035.3	294.5	0.500	5.58	10.66	66.8	
KGO -320	810	2369.1	296.1	0.500	0.00	0.41	348.4	
KGO -325	810	2306.1	298.5	0.500	0.00	0.71	337.9	
KGO -330	810	2236.0	300.8	0.500	0.00	1.05	324.2	
KGO -030	810	1075.4	301.3	0.500	5.20	10.10	72.9	
KGO -335	810	2158.7	303.0	0.500	0.00	1.44	307.2	
KGO -340	810	2071.9	305.1	0.500	0.00	1.90	285.9	
KGO -025	810	1148.4	305.7	0.500	4.55	9.16	83.4	
KGO -345	810	1977.4	306.9	0.500	0.00	2.43	261.6	
KGO -020	810	1236.7	307.8	0.500	3.85	8.14	96.9	
KGO -350	810	1876.3	308.5	0.500	0.16	3.02	235.2	
KGO -015	810	1335.8	309.7	0.500	3.14	7.13	113.8	
KGO -355	810	1771.1	309.7	0.500	0.65	3.69	208.5	
KGO -000	810	1662.1	310.6	0.500	1.20	4.43	182.0	
KGO -010	810	1441.8	310.7	0.500	2.45	6.16	133.9	
KGO -005	810	1551.8	310.9	0.500	1.80	5.25	156.9	

Crawford Broadcasting
Maximum Nighttime Inverse Distance Fields
KLDC 39-50-36 104-57-08 810 kHz

Call	Freq	km	azm	Req-Pro	θ-min	θ-max	Max IDF
WGY -345	810	2462.2	58.4	0.500	0.00	0.00	587.2
WGY -350	810	2516.5	58.4	0.500	0.00	0.00	629.0
WGY -355	810	2570.5	58.5	0.500	0.00	0.00	672.4
WGY -340	810	2407.8	58.5	0.500	0.00	0.00	546.7
WGY -000	810	2623.9	58.7	0.500	0.00	0.00	716.3
WGY -335	810	2353.8	58.8	0.500	0.00	0.48	508.0
WGY -005	810	2676.9	58.9	0.500	0.00	0.00	761.2
WGY -330	810	2299.9	59.1	0.500	0.00	0.74	471.4
WGY -010	810	2728.6	59.2	0.500	0.00	0.00	804.8
WGY -325	810	2246.9	59.5	0.500	0.00	1.00	437.2
WGY -015	810	2779.8	59.6	0.500	0.00	0.00	848.5
WGY -020	810	2829.4	60.1	0.500	0.00	0.00	890.2
WGY -320	810	2195.5	60.1	0.500	0.00	1.26	405.4
WGY -025	810	2878.5	60.6	0.500	0.00	0.00	931.1
WGY -315	810	2144.9	60.8	0.500	0.00	1.52	376.0
WGY -030	810	2925.1	61.2	0.500	0.00	0.00	967.5
WGY -310	810	2096.8	61.7	0.500	0.00	1.77	349.2
WGY -305	810	2051.7	62.7	0.500	0.00	2.01	325.1
WGY -300	810	2008.6	63.9	0.500	0.00	2.25	303.3
WGY -295	810	1970.7	65.2	0.500	0.00	2.47	284.4
WGY -290	810	1935.8	66.7	0.500	0.00	2.67	267.6
WGY -285	810	1907.5	68.3	0.500	0.02	2.83	253.7
WGY -280	810	1884.5	70.1	0.500	0.12	2.97	242.1
WGY -275	810	1868.3	72.0	0.500	0.19	3.07	232.9
WGY -270	810	1858.6	74.0	0.500	0.24	3.13	225.8
WGY -100	810	3331.9	74.2	0.500	0.00	0.00	996.0
WGY -105	810	3334.5	75.4	0.500	0.00	0.00	964.8
WGY -265	810	1857.6	76.0	0.500	0.24	3.14	221.3
WGY -110	810	3331.4	76.6	0.500	0.00	0.00	930.8
WGY -115	810	3324.5	77.8	0.500	0.00	0.00	895.8
WGY -260	810	1863.8	78.0	0.500	0.21	3.10	218.8
WGY -120	810	3311.8	79.0	0.500	0.00	0.00	859.1
WGY -255	810	1879.1	80.0	0.500	0.14	3.01	218.7
WGY -125	810	3293.2	80.2	0.500	0.00	0.00	821.5
WGY -130	810	3269.8	81.4	0.500	0.00	0.00	783.8
WGY -250	810	1902.5	82.0	0.500	0.04	2.86	220.7
WGY -135	810	3241.5	82.6	0.500	0.00	0.00	746.4
WGY -140	810	3207.6	83.8	0.500	0.00	0.00	709.2
WGY -245	810	1932.9	83.9	0.500	0.00	2.68	224.5
WGY -145	810	3168.2	84.9	0.500	0.00	0.00	672.6
WGY -240	810	1972.3	85.5	0.500	0.00	2.46	230.7
WGY -150	810	3124.3	86.0	0.500	0.00	0.00	636.8
WGY -155	810	3075.3	87.1	0.500	0.00	0.00	602.1
WGY -235	810	2017.9	87.1	0.500	0.00	2.20	238.6
WGY -160	810	3021.0	88.1	0.500	0.00	0.00	568.2
WGY -230	810	2071.0	88.4	0.500	0.00	1.91	248.8
WGY -165	810	2963.0	89.0	0.500	0.00	0.00	535.7
WGY -225	810	2128.8	89.6	0.500	0.00	1.60	260.6
WGY -170	810	2901.0	89.8	0.500	0.00	0.00	504.5
WGY -175	810	2835.5	90.5	0.500	0.00	0.00	474.6
WGY -220	810	2192.2	90.5	0.500	0.00	1.27	274.5

Call	Freq	km	azm	Req-Pro	θ-min	θ-max	Max	IDF
WGY -180	810	2767.1	91.1	0.500	0.00	0.00	446.1	
WGY -215	810	2259.3	91.3	0.500	0.00	0.94	290.0	
WGY -185	810	2696.2	91.6	0.500	0.00	0.00	419.1	
WGY -210	810	2329.5	91.8	0.500	0.00	0.60	307.4	
WGY -190	810	2623.5	92.0	0.500	0.00	0.00	393.6	
WGY -205	810	2401.8	92.1	0.500	0.00	0.00	326.5	
WGY -195	810	2549.6	92.2	0.500	0.00	0.00	369.6	
WGY -200	810	2475.5	92.2	0.500	0.00	0.00	347.2	

Crawford Broadcasting
Maximum Nighttime Inverse Distance Fields
KLDC 39-50-36 104-57-08 810 kHz

Call		Freq	km	azm	Req-Pro	θ-min	θ-max	Max IDF
CKJS	-O	810	1257.2	26.5	6.427	5.83	5.83	772.5
WHB	-L	810	891.0	90.5	2.030	7.17	13.00	208.2
WDDD	-L	810	1408.2	93.9	2.768	2.66	6.45	623.8
WNSI	-L	810	1828.3	105.3	2.843	0.38	3.32	978.9
KSJL	-L	810	1310.1	151.3	3.570	3.32	7.38	611.7
KXOI	-L	810	959.5	164.9	3.695	6.37	11.82	386.8
XENVA2-P		810	1088.9	195.6	5.776	7.52	7.52	517.6
XENVA2-P		810	1092.2	211.7	10.946	7.48	7.48	985.9
BROOKS-P		810	1301.3	337.7	5.287	5.44	5.44	688.6