

**Technical Exhibit FCC Form 349**  
**SIGA BROADCASTING CORPORATION**  
**Minor Modification K223CT**  
**BL5T20170912AAM**  
**Facility ID#147322**  
**.25 kW Vertical**  
**San Antonio, TX**

**Purpose Of Application**

SIGA BROADCASTING CORPORATION, ("SIGA"), the licensee of K223CT proposes through this instant application to modify and relocate K223CT. This proposal is to file for use as a fill-in translator for use with the co-owned KTMR (AM) FID 28191, Converse, TX. The proposed facility is an existing building at 300 Convent Street, N29°25'46.3" W98°29'24.29" (NAD83) with a power of .25 kW vertical at a height above average terrain of 109.3 m. The HAAT was calculated using the Computer program V-Soft FMCommander using 12 radials in compliance with the methodology of 47CFR 73.313. FCC 30 second terrain data was used for all contour calculations. The antenna used for the proposed facility is a Kathrein/Scala CL FM V single section log periodic, mounted at 121 meters above ground level. This is an existing structure. The proposed facility is a 121.9 meter building in down town San Antonio. demonstration of contours. The translator proposed 60 dBu 50-50 contour lies entirely within the KTMR 2 mV/m day ground wave contour.

**Interference To Other Facilities**

This proposed facility complies with 47CFR 74.1204 of the Commission's rules for interference to other facilities. There is no overlap of the proposed facility's interfering contours with the protected contours of any other application or facility, with the exception of second adjacent Ch. 225 C1 KROM, San Antonio, TX FID 67071 and K221GF, San Antonio, TX, FID 138171. K221GF has a CP to move to channel 264D but SIGA demonstrates in this application that no actual interference will occur, as no population is covered to either facility, as the interference contour never reaches ground level in the area where the proposed translator has an interfering signal 40 dB more than that of the contour of the protected facility.

K221GF has a calculated contour at the proposed location at the proposed facility location of 89.15 dBu 50-50. The K223CT 129 dBu 50-10 contour does not reach ground is over 119 meters above ground level at the proposed location. KROM has a calculated contour of 81.5 dBu 50-50 at the proposed translator location. The interference contour of the proposed facility, 121.52 dBu 50-10 contour is 119 meters above ground level. As shown in the following exhibit, this contour does not reach ground level when the vertical radiation pattern of the Kathrein/Scala CL FM V antenna is taken into consideration. No actual interference will occur anywhere at ground level, as this interference contour does not reach the ground at any point. See the following pages for exhibits depicting these statements.

. SIGA acknowledges that operation of this facility will cease if there are any complaints of interference. See the following pages for demonstration of no interference and compliance with 74.1204 d.

**Environmental**

The proposed location is an existing building. The rooftop is requires access only through building security. SIGA agrees to discontinue operation if personnel are working near the antenna on the building roof top.

k223ctprop

REFERENCE CH# 223D - 92.5 MHz, Pwr= 0.25 kw DA, HAAT= 109.3 M, COR= 321 M DISPLAY DATES  
 29 25 46.30 N. Average Protected F(50-50)= 13.44 km DATA 04-30-21  
 98 29 24.29 W. Standard Directional SEARCH 04-30-21

CH CITY	CALL	TYPE STATE	ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
223C2 Devine	KRPT	LIC _CN TX		224.2 43.9	77.93 BLH19981026KD	28 55 32.90 99 02 54.10	50.000 150	138.7 336	52.7 Ihm Licenses, LLC	-67.5*	9.4
225C1 San Antonio	KROM	LIC NCN TX		128.1 308.3	27.79 BLH19970530KA	29 16 29.80 98 15 53.00	45.000 412	9.3 570	72.3 Tichenor License Corporati	3.5	-49.2*
223D San Antonio	K223CT	LIC DVN TX		124.2 304.4	27.47 BLFT20170912AAM	29 17 24.90 98 15 21.00	0.250 439	57.8 439	14.6 Siga Broadcasting Corporat	-42.7*	-37.8*
221D San Antonio	K221GF	LIC DCN TX		189.5 9.5	1.26 BLFT20161209AAU	29 25 05.80 98 29 32.10	0.029 357	0.4 357	8.5 Carlos Lopez	-6.0*	-9.0*
222C2 Kerrville	KRNH	LIC NCN TX		322.0 141.7	89.40 BLH20070406AAQ	30 03 42.80 99 03 44.10	20.000 203	76.8 753	52.0 Radio Ranch, LLC	10.8	34.8
221A New Braunfels	KNBT	LIC ZCN TX		46.8 227.0	48.99 BLH20030501AAZ	29 43 50.80 98 07 13.00	6.000 95	2.9 327	29.8 New Braunfels Communicatio	37.0	18.8
223C3 Sunset Valley	KVLR	LIC NCN TX		33.1 213.5	115.56 BLED20170321AAM	30 17 53.70 97 49 55.00	4.900 161	87.2 391	28.6 Educational Media Foundati	20.7	75.2
220D Pleasanton	K220GL	LIC _VN TX		179.2 359.2	51.71 BLFT19991122ACP	28 57 51.80 98 28 56.00	0.050 -44	0.5 144	4.7 CSN International	39.1	46.6

Terrain database is FCC NGDC 30 Sec , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM  
 In & Out distances between contours are shown at closest points. Reference zone= - Zone 2, Co to 3rd adjacent.  
 All separation margins (if shown) include rounding.  
 Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, \_= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)  
 "\*"affixed to 'IN' or 'OUT' values = site inside restricted contour.  
 Reference station has protected zone issue: Mexico

K223CT Pr San Antonio, Texas, Showing Protection to KROM , Channel: 225  
 Geographic Coordinates: N. 29 25 46.30 W. 98 29 24.29  
 74.1204(d) Study - Using FCC 30 SEC Terrain Database  
 Translator Maximum Licensed ERP = 0.25 kW, Channel: 223  
 Translator Antenna Height AG = 121 meters  
 K223CT Prop Antenna Azimuth Model = Vertical Model Name = CLFMV

Protected Station's Contour = 81.52013 dBu  
 Translator's full Interference contour 121.52013

Review Azimuth = 128 Degrees True  
 Horizontal Relative Field at Review Azimuth = 0.984  
 Translator ERP on the horizontal at Review Azimuth = 0.242 kW  
 Distance between stations = 27.8 km  
 Protected Station= KROM, 45 kW, 570 M meters COR AMSL

Depression Angle From Degree(Deg)	Vertical Relative Field	Horizontal Relative Field	ERP (kw)	Dist to IX Contour Along Dep. Angle(m)	Dist to IX Contour From Tower Base(m)	Height IX Above Ground (m)
00.00	1.0	0.98	0.2460	092.3551	092.3551	121.000
05.00	0.977	0.98	0.2348	090.2310	089.8876	113.136
10.00	0.915	0.98	0.2060	084.5050	083.2211	106.326
15.00	0.815	0.98	0.1634	075.2694	072.7047	101.519
20.00	0.689	0.98	0.1168	063.6327	059.7952	099.236
25.00	0.549	0.98	0.0741	050.7030	045.9525	099.572
30.00	0.405	0.98	0.0404	037.4038	032.3927	102.298
35.00	0.269	0.98	0.0178	024.8435	020.3506	106.750
40.00	0.149	0.98	0.0055	013.7609	010.5415	112.155
45.00	0.051	0.98	0.0006	004.7101	003.3306	117.669
50.00	0.023	0.98	0.0001	002.1242	001.3654	119.373
55.00	0.071	0.98	0.0012	006.5572	003.7611	115.629
60.00	0.097	0.98	0.0023	008.9584	004.4792	113.242
65.00	0.099	0.98	0.0024	009.1432	003.8641	112.713
70.00	0.075	0.98	0.0014	006.9266	002.3690	114.491
75.00	0.049	0.98	0.0006	004.5254	001.1713	116.629
80.00	0.024	0.98	0.0001	002.2165	000.3849	118.817
85.00	0.015	0.98	0.0001	001.3853	000.1207	119.620
90.00	0.015	0.98	0.0001	001.3853	000.0000	119.615

K223CT Pr San Antonio, Texas, Showing Protection to K221GF , Channel: 221  
 Geographic Coordinates: N. 29 25 46.30 W. 98 29 24.29  
 74.1204(d) Study - Using FCC 30 SEC Terrain Database  
 Translator Maximum Licensed ERP = 0.25 kW, Channel: 223  
 Translator Antenna Height AG = 121 meters  
 K223CT Pr Antenna Azimuth Model = Vertical Model Name = CLFMV

Protected Station's Contour = 89.48021 dBu  
 Translator's full Interference contour 129.48021

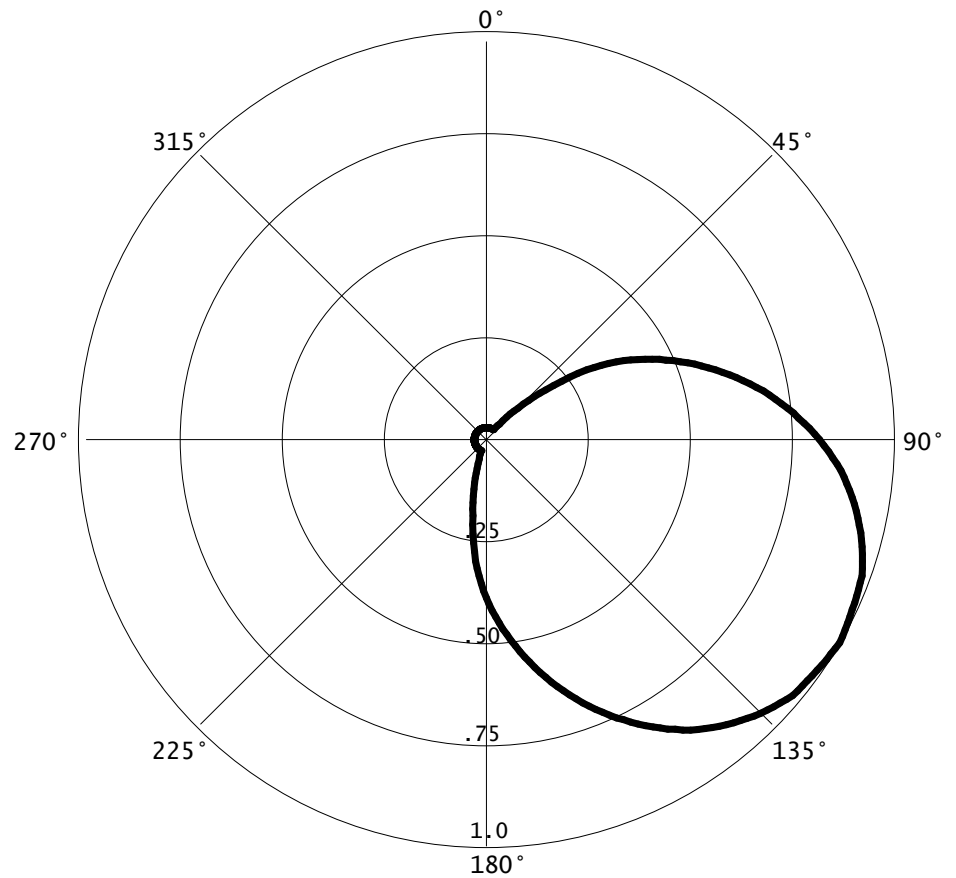
Review Azimuth = 189 Degrees True  
 Horizontal Relative Field at Review Azimuth = 0.212  
 Translator ERP on the horizontal at Review Azimuth = 0.011 kW  
 Distance between stations = 1.3 km  
 Protected Station= K221GF, .029 kW, 357 M meters COR AMSL

Depression Angle From Degree(Deg)	Vertical Relative Field	Horizontal Relative Field	ERP (kw)	Dist to IX Contour Along Dep. Angle(m)	Dist to IX Contour From Tower Base(m)	Height IX Above Ground (m)
00.00	1.0	0.21	0.0530	017.1446	017.1446	121.000
05.00	0.977	0.21	0.0506	016.7503	016.6865	119.540
10.00	0.915	0.21	0.0444	015.6873	015.4490	118.276
15.00	0.815	0.21	0.0352	013.9729	013.4967	117.384
20.00	0.689	0.21	0.0252	011.8126	011.1002	116.960
25.00	0.549	0.21	0.0160	009.4124	008.5305	117.022
30.00	0.405	0.21	0.0087	006.9436	006.0133	117.528
35.00	0.269	0.21	0.0038	004.6119	003.7778	118.355
40.00	0.149	0.21	0.0012	002.5545	001.9569	119.358
45.00	0.051	0.21	0.0001	000.8744	000.6183	120.382
50.00	0.023	0.21	0.0000	000.3943	000.2535	120.698
55.00	0.071	0.21	0.0003	001.2173	000.6982	120.003
60.00	0.097	0.21	0.0005	001.6630	000.8315	119.560
65.00	0.099	0.21	0.0005	001.6973	000.7173	119.462
70.00	0.075	0.21	0.0003	001.2858	000.4398	119.792
75.00	0.049	0.21	0.0001	000.8401	000.2174	120.189
80.00	0.024	0.21	0.0000	000.4115	000.0715	120.595
85.00	0.015	0.21	0.0000	000.2572	000.0224	120.744
90.00	0.015	0.21	0.0000	000.2572	000.0000	120.743



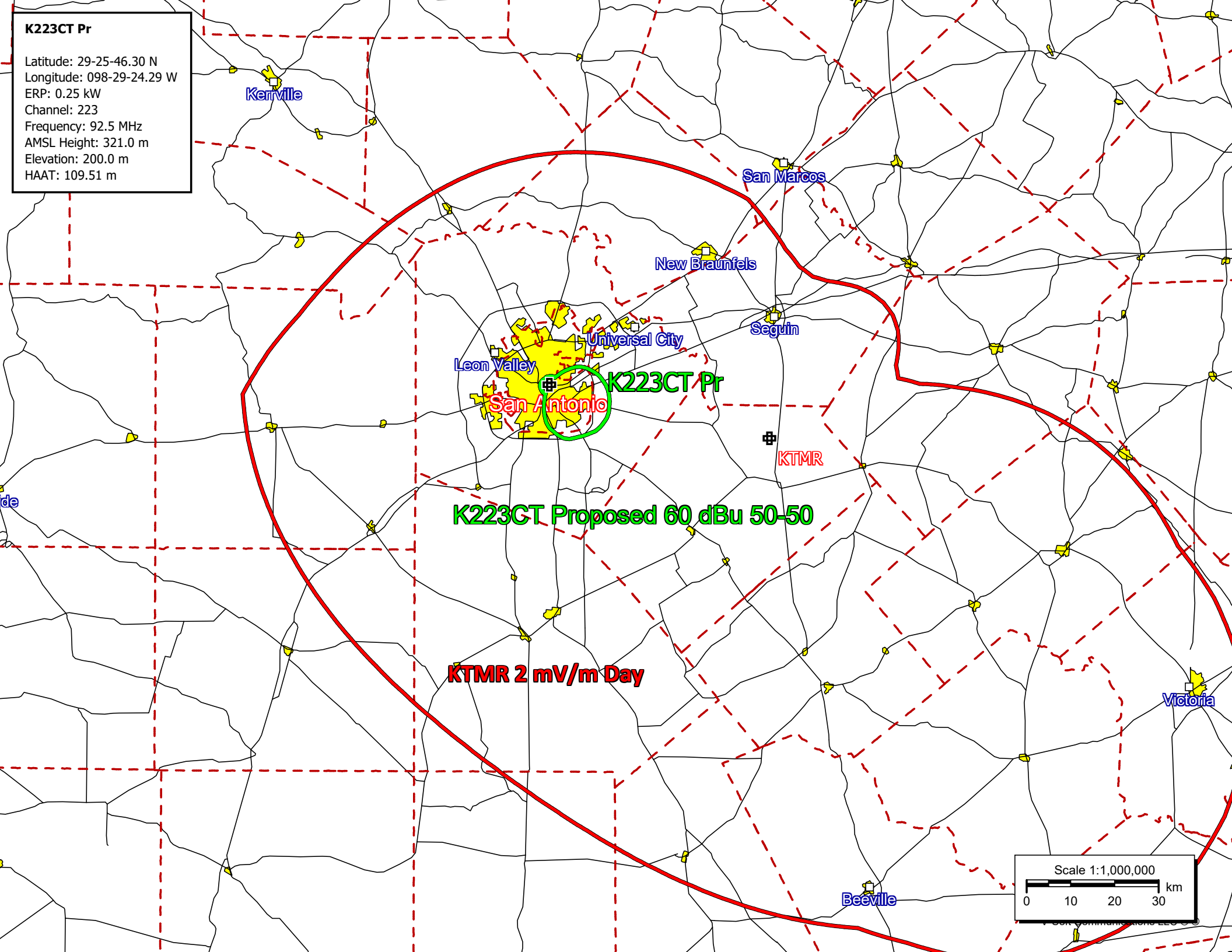
Graph is Relative Field

Azi	Field	dBk	kw
000	0.030	-36.478	0.000
010	0.030	-36.478	0.000
020	0.030	-36.478	0.000
030	0.030	-36.478	0.000
040	0.050	-32.041	0.001
050	0.190	-20.446	0.009
060	0.390	-14.199	0.038
070	0.544	-11.309	0.074
080	0.690	-09.244	0.119
090	0.817	-07.776	0.167
100	0.916	-06.783	0.210
110	0.980	-06.196	0.240
120	1.000	-06.021	0.250
130	0.980	-06.196	0.240
140	0.916	-06.783	0.210
150	0.817	-07.776	0.167
160	0.690	-09.244	0.119
170	0.544	-11.309	0.074
180	0.390	-14.199	0.038
190	0.190	-20.446	0.009
200	0.050	-32.041	0.001
210	0.030	-36.478	0.000
220	0.030	-36.478	0.000
230	0.030	-36.478	0.000
240	0.030	-36.478	0.000
250	0.030	-36.478	0.000
260	0.030	-36.478	0.000
270	0.030	-36.478	0.000
280	0.030	-36.478	0.000
290	0.030	-36.478	0.000
300	0.030	-36.478	0.000
310	0.030	-36.478	0.000
320	0.030	-36.478	0.000
330	0.030	-36.478	0.000
340	0.030	-36.478	0.000
350	0.030	-36.478	0.000



**K223CT Pr**

Latitude: 29-25-46.30 N  
Longitude: 098-29-24.29 W  
ERP: 0.25 kW  
Channel: 223  
Frequency: 92.5 MHz  
AMSL Height: 321.0 m  
Elevation: 200.0 m  
HAAT: 109.51 m



**K223CT Proposed 60 dBu 50-50**

**KTMR 2 mV/m Day**

Scale 1:1,000,000

0 10 20 30 km