RIO BRAVO ENTERTAINMENT, LLC
FM Translator K260BC
Henly, TX
PROPOSED: CH262FT, 100.3 MHz, 0.070 kW, 149.5m HAAT

ENGINEERING STATEMENT

This engineering statement was prepared for Rio Bravo Entertainment, LLC, licensee of FM translator K260BC in support of a minor change application to change frequency from 99.9 MHz to 100.3 Mhz with 0.070 kW ERP (main lobe) and change community of license to Henly, TX. This translator will be co-located at tower #1218246 with two three-bay Kathrein-Scala 3XCA5-FM/CP/RM/50N Yagi array antennas 110 meters above ground level, with main lobes at 120°T and 300°T.

ALLOCATION CONSIDERATIONS

Figure 1 is a portion of a USGS topographic map depicting the location of the proposed K260BC site. Figure 2A is an allocation map showing contours of K260BC-proposed and contours of allocation interest. Figure 2B shows the licensed and proposed K260BC 60 dBu contour overlap, as well as the 68 dBu of KASE-FM auxiliary (#2).

As shown in Figure 2A, none of the allocation contours of this proposal cause prohibitive overlap. While this translator is within the 60 dBu service contour of KASE-FM, it is noted that the KASE-FM (Auxiliary #2) 68 dBu contour, worst case, falls over the site and hence the K260BC 108 dBu contour shall not cause interference. Since a three-bay antenna is proposed at 110 meters AGL and considering the vertical plane pattern of the antenna, the 108 dBu contour will not reach ground level nor any building occupied by people. Hence no interference will be caused to KASE-FM.

Figure 3A is a polar plot and tabulation of the horizontal pattern of the two Kathrein-Scala 3XCA5-FM/CP/RM/50N Yagi array antennas, while Figure 3B, Pages 1 to 3, is a tabulation and graph of the vertical pattern.

ENVIRONMENTAL CONSIDERATIONS

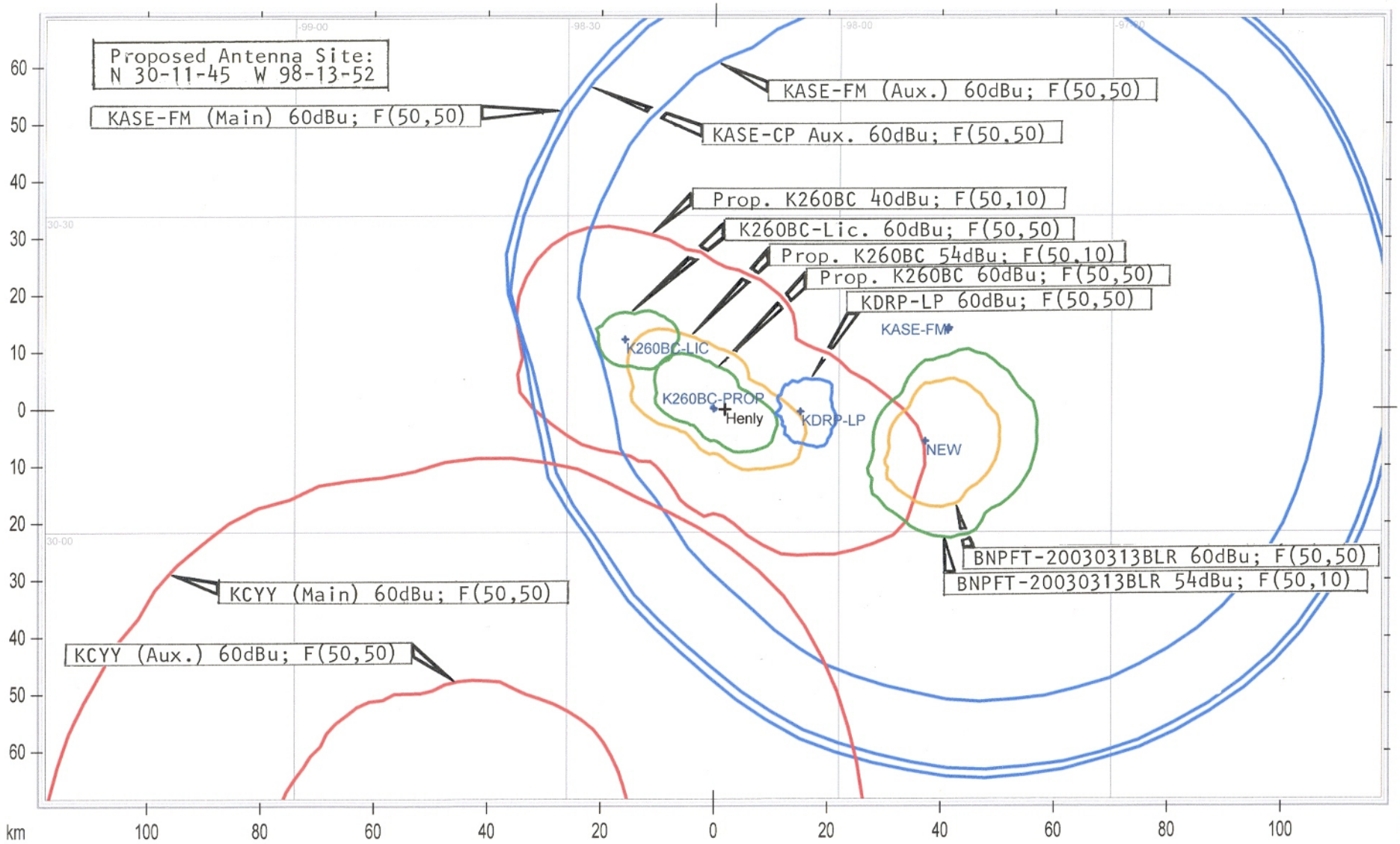
This was addressed in OET Bulletin #65, released August 1, 1997. Table B on Page 67 of the document depicts the ANSI/IEEE protection requirements. The maximum permissible exposure for uncontrolled environments in the 30 to 300 MHz band is a power density of 0.2 milliwatts per centimeter squared (mw/cm^2). As a worst-case, power density is studied at points 2 meters above ground level contiguous to the FM translator tower and if not excessive at that elevation, it would certainly not be excessive below that elevation where the general public may have access.

Since this FM translator operates at 0.070 kW ERP with a 3-bay FM antenna 110 meters above ground level, the greatest radiofrequency power density 2 meters above ground level is defined by the field elevation pattern of the Kathrein-Scala antenna and produces a maximum power density of 0.000044 mw/cm² at that elevation. This is 0.022% of the 0.2 mw/cm² limit for an uncontrolled environment. There are appropriate RF warning signs on the tower fence. Should maintenance personnel need access to the tower, the FM translator facility will either reduce power or cease operation until workers are clear of the tower fence.

July 30, 2010

William J. Sitzman
Consulting Radio Engineer

K260BC Ch262 (100.3 MHz) Allocation Map



Facilities & Proposals Studied:

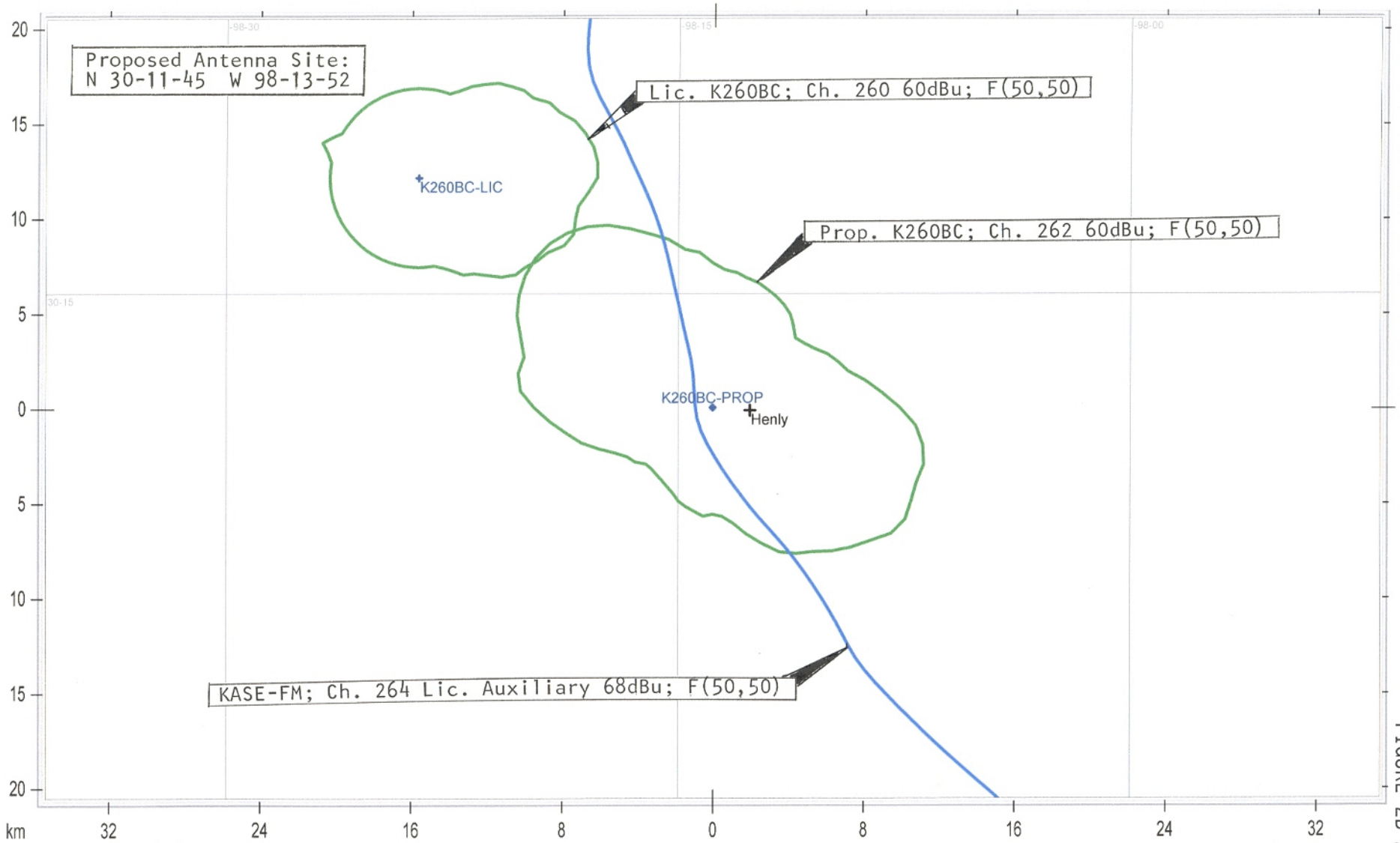
Ch. 259 (99.7): None
Ch. 260 (99.9): K260BC (Licensed): 50 w, -16m AAT
KDRP-LP (Lic.): 17 w, 70m AAT
Ch. 261 (100.1): NEW XLTR*: 170 w, 54m AAT
Ch. 262 (100.3): K260BC (Proposed): 70 w, 150m AAT
KCYY (Lic. Main): 98kW, 273m AAT
KCYY (Lic. Aux.): 1.3kW, 220m AAT

Ch. 263 (100.5): None
Ch. 264 (100.7): KASE-FM (Lic. Main): 100 kW, 334m AAT
KASE-FM (Lic. Aux.): 59 kW, 241m AAT
KASE-FM (CP Aux.**): 72 kW, 362m AAT
Ch. 265 (100.9): None

Key: * = New Xltr. App. per BNPFT-20030313BLR
** = KASE-FM Aux. CP per BXPH-20100204AAP

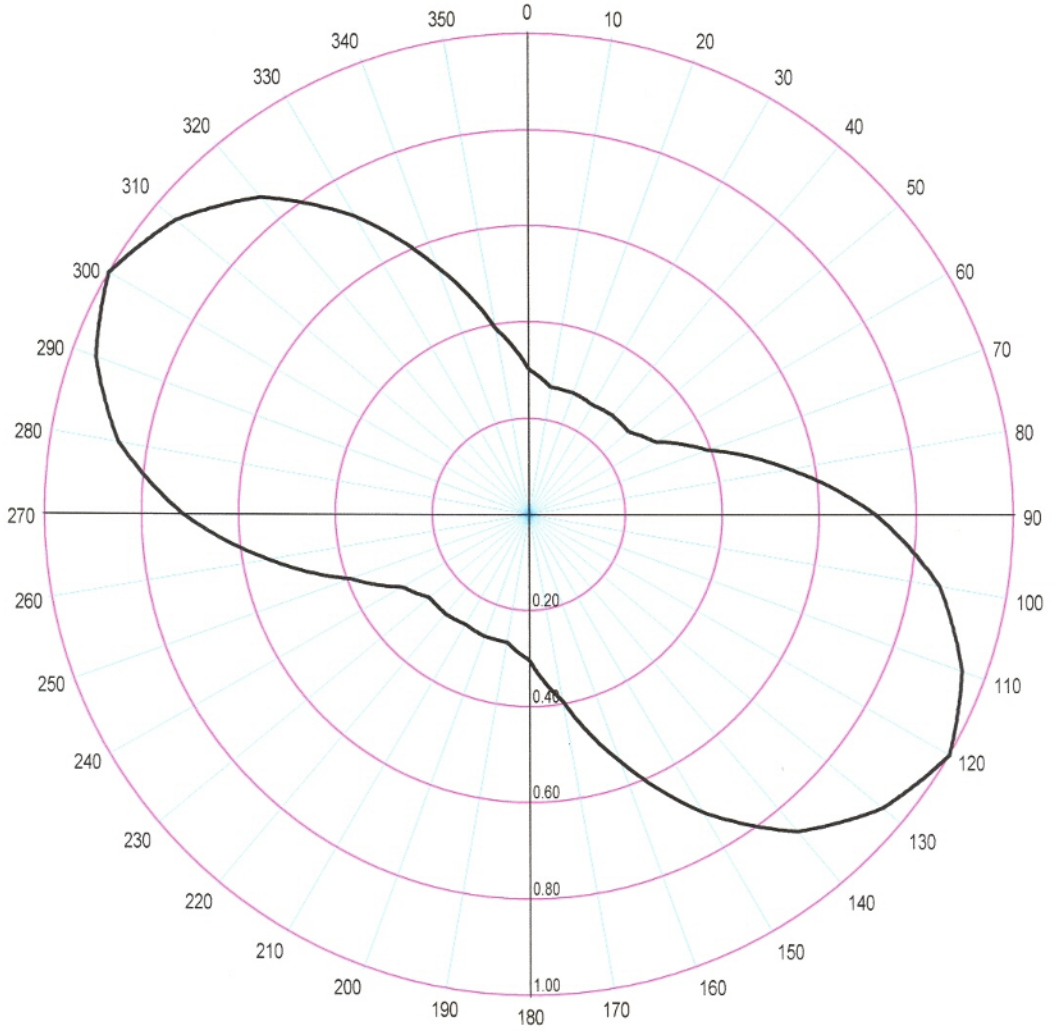
FIGURE 2A Amended

K260BC Ch262 (100.3 MHz) Detailed Allocation Map



As shown, the proposed K260BC (Ch. 262; 100.3 MHz.) protected 60dBu F(50,50) contour includes a portion of the 60dBu F(50,50) service area of the licensed K260BC on Channel 260, 99.9 MHz.
Also, as shown, the 68dBu; F(50,50) service contour of the licensed auxiliary facility for second-adjacent station KASE-FM, Austin, TX (per BLH-19940407KD) provides the most restrictive protection requirement for the proposed K260BC (on Channel 262) in relation to the KASE-FM main or auxiliary facilities. licensed, permitted or proposed. Compliance with the protection requirement for KASE-FM (Aux.) is addressed in the Engineering Statement.

FIGURE 2B Amended



Azim	Rel.FS	ERP [W]	dBk
0.0	0.303	6.427	-21.920
5.0	0.286	5.726	-22.422
10.0	0.269	5.065	-22.954
15.0	0.269	5.065	-22.954
20.0	0.270	5.103	-22.922
25.0	0.267	4.990	-23.019
30.0	0.264	4.879	-23.117
35.0	0.267	4.990	-23.019
40.0	0.270	5.103	-22.922
45.0	0.269	5.065	-22.954
50.0	0.269	5.065	-22.954
55.0	0.286	5.726	-22.422
60.0	0.303	6.427	-21.920
65.0	0.348	8.477	-20.717
70.0	0.393	10.811	-19.661
75.0	0.469	15.397	-18.126
80.0	0.546	20.868	-16.805
85.0	0.630	27.783	-15.562

Azim	Rel.FS	ERP [W]	dBk
90.0	0.715	35.786	-14.463
95.0	0.787	43.356	-13.630
100.0	0.860	51.772	-12.859
105.0	0.905	57.332	-12.416
110.0	0.950	63.175	-11.995
115.0	0.975	66.544	-11.769
120.0	1.000	70.000	-11.549
125.0	0.975	66.544	-11.769
130.0	0.950	63.175	-11.995
135.0	0.905	57.332	-12.416
140.0	0.860	51.772	-12.859
145.0	0.787	43.356	-13.630
150.0	0.715	35.786	-14.463
155.0	0.630	27.783	-15.562
160.0	0.546	20.868	-16.805
165.0	0.469	15.397	-18.126
170.0	0.393	10.811	-19.661
175.0	0.348	8.477	-20.717

Azim	Rel.FS	ERP [W]	dBk
180.0	0.303	6.427	-21.920
185.0	0.286	5.726	-22.422
190.0	0.269	5.065	-22.954
195.0	0.269	5.065	-22.954
200.0	0.270	5.103	-22.922
205.0	0.267	4.990	-23.019
210.0	0.264	4.879	-23.117
215.0	0.267	4.990	-23.019
220.0	0.270	5.103	-22.922
225.0	0.269	5.065	-22.954
230.0	0.269	5.065	-22.954
235.0	0.286	5.726	-22.422
240.0	0.303	6.427	-21.920
245.0	0.348	8.477	-20.717
250.0	0.393	10.811	-19.661
255.0	0.469	15.397	-18.126
260.0	0.546	20.868	-16.805
265.0	0.630	27.783	-15.562

Azim	Rel.FS	ERP [W]	dBk
270.0	0.715	35.786	-14.463
275.0	0.787	43.356	-13.630
280.0	0.860	51.772	-12.859
285.0	0.905	57.332	-12.416
290.0	0.950	63.175	-11.995
295.0	0.975	66.544	-11.769
300.0	1.000	70.000	-11.549
305.0	0.975	66.544	-11.769
310.0	0.950	63.175	-11.995
315.0	0.905	57.332	-12.416
320.0	0.860	51.772	-12.859
325.0	0.787	43.356	-13.630
330.0	0.715	35.786	-14.463
335.0	0.630	27.783	-15.562
340.0	0.546	20.868	-16.805
345.0	0.469	15.397	-18.126
350.0	0.393	10.811	-19.661
355.0	0.348	8.477	-20.717