Kanza Society, Inc.
340 Application for Modification of Construction Permit
KCSE-FM, BMPED-20101012AFD
Lamar, CO
February 2, 2010

EXHIBIT 18: Contour Overlap and Spacing Requirements

Documentation for Form 340, Section VII, Items 15a and 15b

An FM interference study using Dataworld's FM Study program and based on the HAAT of eight standard radials shows no prohibited interference to or from the Proposed station to existing co-, 1st-, 2nd- and 3rd adjacent channel stations and authorizations. Nor does it show any prohibited interference to stations 53 or 54 channels removed. Wide margins of separation exist for all stations studied. Details of the study are provided below.

BIAfn/Dataworld FM Channel Study

Safety Zone: 30.0 km (18.6 mi)
Safety dB: 3.0
Channel(s): 214 A
Coordinates: N 38° 02' 10.0" W 102° 35' 58.0"
Effective radiated power: 0.25 kW
Antenna 113 m (370.6 ft) above average terrain
FM Translators excluded
Database: FCC 2/1/2011 12:00:00 AM

Call / City of License	Auth	Licensee name / St	FCC File Number	Chan / Freq	HAAT(m) / HAMSL(m)	ERP (kW)	Latitude / Longitude	Br-to -from	Dist (km)	Req (km)
NEW	APP	SIERRA GRANDE BROADCASTING		6 II			N 36° 45' 48.0"	218.8	180.6	110.6
DES MOINES		NM	BPRM-20011009AEH	82			W 103° 52' 12.0"	38.0	69.94	CLEAR
Assumed ERP: 100 kW; HAAT: 300 m										
Proposed Channel 214 A 71.75 dBuV/m F(50,10) Interfering contour = 7.1 km							NEW Channel 6 2 47 dBuV/m F(50,50) Service contour = 103.6 km			
KJLI	CP	GREAT PLAINS CHRISTIAN RADIO, IN		*211 C2	104.0	25 H	N 37° 58' 43.0"	266.0	86.35	40.82
LA JUNTA		CO	BNPED-20071018AHX	90.1	1390.0	25 V	W 103° 34' 48.0"	85.4	45.53	CLEAR
Proposed Channel 214 A 100 dBuV/m F(50,10) Interfering contour = 1.1 km							KJLI Channel 211 C2 60 dBuV/m F(50,50) Service contour = 39.7 km			
Proposed Channel 214 A 60 dBuV/m F(50,50) Service contour = 13.7 km							KJLI Channel 211 C2 100 dBuV/m F(50,10) Interfering contour = 4.2 km			
NEW	CP	THE PRAISE NETWORK, INC.		*212 A	77.0		N 40° 03' 13.0"	8.1	226.3	14.90
WRAY		CO	BNPED-20071018ATE	90.3	1211.0	0.425 V	W 102° 13' 32.0"	188.3	211.4	CLEAR
Proposed Channel 214 A 100 dBuV/m F(50,10) Interfering contour = 1.1 km							NEW Channel 212 A 60 dBuV/m F(50,50) Service contour = 12.9 km			
Proposed Channel 214 A 60 dBuV/m F(50,50) Service contour = 13.7 km							NEW Channel 212 A 100 dBuV/m F(50,10) Interfering contour = 1.2 km			
NEW	CP	KANZA SOCIETY, INC.		*213 C2	123.0	30 H	N 36° 45' 52.2"	138.6	187.3	80.35
HOOKER		OK	BNPED-20071018BDF	90.5	1010.0	30 V	W 101° 12' 32.2"	319.4	106.9	CLEAR
Proposed Channel 214 A 54 dBuV/m F(50,10) Interfering contour = 20.6 km							NEW Channel 213 C2 60 dBuV/m F(50,50) Service contour = 43.9 km			
Proposed Channel 214 A 60 dBuV/m F(50,50) Service contour = 13.7 km							NEW Channel 213 C2 54 dBuV/m F(50,10) Interfering contour = 66.7 km			
KCSE	CP	KANZA SOCIETY, INC.		*214 C3	100.0	12 H	N 38° 02' 10.0"	0.0	0.000	112.0
LAMAR		CO	BMPED-20101012AFD	90.7	1246.0	12 V	W 102° 35' 58.0"	0.0	-112	SHORT
Proposed Channel 214 A 40 dBuV/m F(50,10) Interfering contour = 46.6 km							KCSE Channel 214 C3 60 dBuV/m F(50,50) Service contour = 33.3 km			
Proposed Channel 214 A 60 dBuV/m F(50,50) Service contour = 13.7 km							KCSE Channel 214 C3 40 dBuV/m F(50,10) Interfering contour = 98.3 km			
Current CP										

Call	Auth	Licensee name		Chan	HAAT(m)	ERP	Latitude	Br-to	Dist	Req
City of License		St	FCC File Number	Freq	HAMSL(m)	(kW)	Longitude	-from	(km)	(km)
KJHL	LIC	GREAT PLAINS CHRISTIAN RADIO, IN		*215 C3	107.0	10 H	N 36° 44' 05.0"	176.4	144.7	64.52
BOISE CITY		OK	BLED-20081231AAX	90.9	1368.0	10 V	W 102° 29' 53.0"	356.5	80.19	CLEAR
Proposed Channel 214 A 54 dBuV/m F(50,10) Interfering contour = 20.6 km							KJHL Channel 215 C3 60 dBuV/m F(50,50) Service contour = 32.9 km			
Proposed Channel 214 A 60 dBuV/m F(50,50) Service contour = 13.7 km							KJHL Channel 215 C3 54 dBuV/m F(50,10) Interfering contour = 50.8 km			
KANZ	LIC	KANZA SOCIETY, INC.		*216 C1	292.2	100 H	N 37° 46' 43.0"	100.3	152.6	72.86
GARDEN CITY		KS	BLED-20070529ACD	91.1	1178.0	100 V	W 100° 53' 43.4"	281.4	79.70	CLEAR
Proposed Channel 214 A 100 dBuV/m F(50,10) Interfering contour = 1.1 km							KANZ Channel 216 C1 60 dBuV/m F(50,50) Service contour = 71.8 km			
Proposed Channel 214 A 60 dBuV/m F(50,50) Service contour = 13.7 km							KANZ Channel 216 C1 100 dBuV/m F(50,10) Interfering contour = 10.0 km			
KZNZ	CP	KANZA SOCIETY, INC.		*217 A	81.0	0.13 H	N 37° 00' 01.2"	151.9	130.2	14.48
ELKHART		KS	BNPED-20071018BDC	91.3	1170.0	0.13 V	W 101° 54' 29.7"	332.3	115.7	CLEAR
Proposed Channel 214 A 100 dBuV/m F(50,10) Interfering contour = 1.1 km							KZNZ Channel 217 A 60 dBuV/m F(50,50) Service contour = 9.9 km			
Proposed Channel 214 A 60 dBuV/m F(50,50) Service contour = 13.7 km							KZNZ Channel 217 A 100 dBuV/m F(50,10) Interfering contour = 0.8 km			
KOCK	LIC	EDWARD MAGNUS		267 C1	305.0	95.5 H	N 37° 47' 20.0"	261.2	168.2	22.00
WALSENBURG		CO	BLH-20090105AGJ	101.3	2095.0	95.5 V	W 104° 29' 12.0"	80.0	146.2	CLEAR
Required separation derived from section 73.207 of FCC rules										
Proposed Channel 214 A 91 dBuV/m F(50,10) Interfering contour = 2.2 km							KOCK Channel 267 C1 91 dBuV/m F(50,50) Service contour = 16.9 km			
KSMM-FM	LIC	ROCKING M RADIO, INC.		268 C1	165.0	100 H	N 37° 03' 20.0"	124.1	191.9	22.00
LIBERAL		KS	BLH-19821213AK	101.5	1002.0	100 V	W 100° 48' 40.0"	305.2	169.9	CLEAR
Required separation derived from section 73.207 of FCC rules										
Proposed Channel 214 A 91 dBuV/m F(50,10) Interfering contour = 2.2 km							KSMM-FM Channel 268 C1 91 dBuV/m F(50,50) Service contour = 12.5 km			

>> End of channel 214 A study <<