

Exhibit 13.1 - Copy of Existing Antenna Structure Registration



Registration Detail

Reg Number	1225442	Status	Constructed
File Number	A0663234	Constructed	05/08/2001
EMI	No	Dismantled	
NEPA	No		

Antenna Structure

Structure Type TOWER - Free standing or Guyed Structure used for Commu

Location (in NAD83 Coordinates)

Lat/Long	38-01-46.9 N 097-18-54.1 W	Address	1800 SE 14th (KS10867-A)
City, State	Newton , KS		
Zip	67114	County	HARVEY
Center of AM Array		Position of Tower in Array	

Heights (meters)

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
452.0	56.4
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
508.4	54.9

Painting and Lighting Specifications

None

FAA Notification

FAA Study	2008-ACE-2320-OE	FAA Issue Date	06/16/2008
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Owner & Contact Information

FRN	0015709579	Owner Entity Type	
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Owner

SBA Towers II LLC
 Attention To: Edward G. Roach
 5900 Broken Sound Pkwy NW
 Boca Raton , FL 33487

P: (561)995-7670
 F:
 E: ERoach@sbsite.com

Contact

Roach , Edward G
 5900 Broken Sound Pkwy NW
 Boca Raton , FL 33487

P: (561)995-7670
 F:
 E: ERoach@sbsite.com

Last Action Status

Status	Constructed	Received	01/18/2010
Purpose	Notification	Entered	01/18/2010
Mode	Interactive		

Related Applications

01/18/2010	A0663228 - Modification (MD)
01/18/2010	A0663234 - Notification (NT)
05/07/2008	A0593510 - Change Owner (OC)
Related applications (5)	

Comments

Comments

None

History

Date	Event
01/20/2010	Registration Printed
01/18/2010	ASR Application receipt email sent: Tower email
01/18/2010	Construction Notification Received
All History (12)	

Automated Letters

01/20/2010	Authorization, Reference
05/08/2008	Authorization, Reference
05/08/2008	Ownership Change, Reference 598652
All letters (5)	

Exhibit 13.2

Vertical Plan of Antenna System

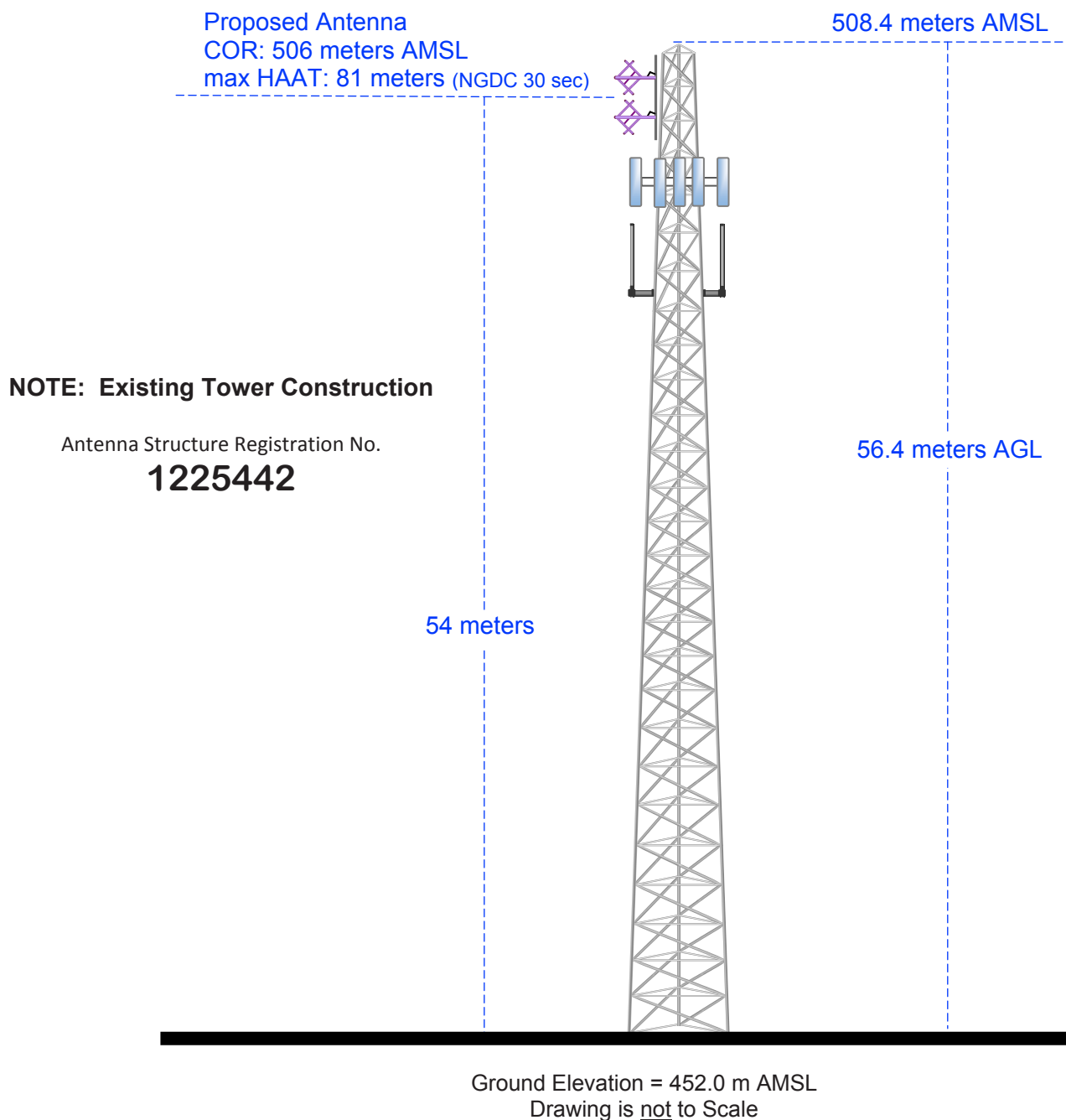
The site is located at 1800 SE 14th;
the city of Newton; Harvey County, Kansas.

Site Location (NAD 27)

NL: 38° 01' 47"

WL: 97° 18' 53"

(38-01-46.9NL; 97-18-54.1WL NAD1983)



MUNN-REESE, INC.

Broadcast Engineering Consultants
Coldwater, MI 49036

Terrain
391 476 m

NGDC 30 SEC Terrain Database
US Census 2010 PL Database

Exhibit 13.3 Present vs. Proposed Service Contour Study

K228DY.L
Newton, KS
BLFT20041227ABJ
Facility ID: 142769
Latitude: 38-01-47 N
Longitude: 097-18-53 W
ERP: 0.25 kW
Channel: 228D (93.5 MHz)
AMSL Height: 508.0 m
Horiz. Pattern: Omni

60 dBμ F(50:50) Contour
Total Population: 22,549
Total Area: 360 sq. km

CH281D.P
Newton, KS
Proposed Operation
Facility ID: 142769
Latitude: 38-01-47 N
Longitude: 097-18-53 W
ERP: 0.25 kW
Channel: 281D (104.1 MHz)
AMSL Height: 506.0 m
Horiz. Pattern: Omni

60 dBμ F(50:50) Contour
Total Population: 22,476
Total Area: 350 sq. km

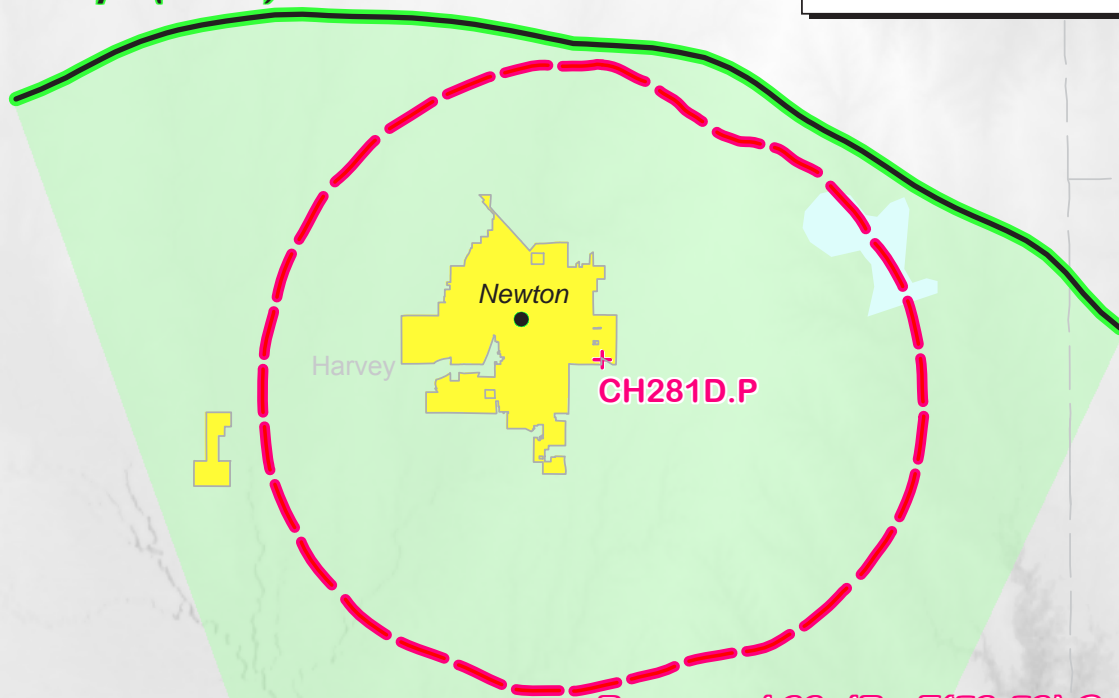
K228DY.L
CH281D.P

Scale 1:125,000
0 2 4 6 km



Exhibit 13.4 Proposed vs. Primary Service Contour Study

Primary 45 dBμ F(50:50) Contour



Proposed 60 dBμ F(50:50) Contour

Primary 60 dBμ F(50:50) Contour

CH281D.P
Newton, KS
Proposed Operation
Facility ID: 142769
Latitude: 38-01-47 N
Longitude: 097-18-53 W
ERP: 0.25 kW
Channel: 281D (104.1 MHz)
AMSL Height: 506.0 m
Horiz. Pattern: Omni

KYFW(FM)
Wichita, KS
BMLED20090403ABO
Facility ID: 5098
Latitude: 37-40-22 N
Longitude: 097-20-08 W
ERP: 17.00 kW
Channel: 202C3 (88.3 MHz)
AMSL Height: 446.0 m
Horiz. Pattern: Omni



Terrain
354 478 m

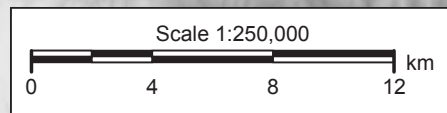


Exhibit 13.5

Tabulation of Proposed Translator Allocation

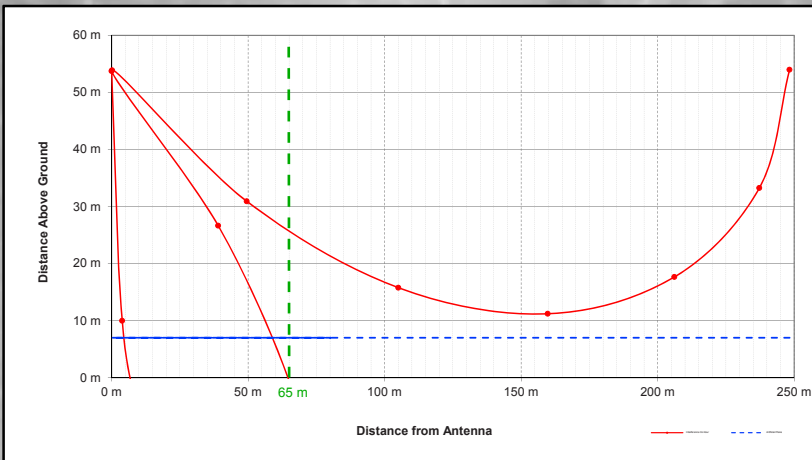
REFERENCE 38 01 47.0 N. 97 18 53.0 W.		CH# 281D - 104.1		Bible Broadcasting Network, Inc. MHz, Pwr= 0.25 kW, HAAT= 65.5 M, COR= 506 M Average Protected F(50-50)= 10.58 km Omni-directional				DISPLAY DATES DATA 10-16-14 SEARCH 10-20-14		
CH CITY	CALL	TYPE STATE	ANT AZI <--	DIST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
279C0 Wichita	KEYN-FM	LIC NC_ KS	215.9 35.8	31.46 BLH20031110AMY	37 48 01.0 97 31 29.0	100.000 307	10.3 729	73.4 Entercom License, LIc	9.6	-43.1*<
283C2 Augusta	KFXJ	LIC ZCX KS	170.7 350.7	25.41 BLH20140903AHM	37 48 15.0 97 16 04.0	47.000 154	5.4 571	48.4 Journal Broadcast Corporat	9.5	-24.1*<
281C3 Council Grove	NEW	CP ZCX KS	52.7 233.3	113.90 BNPED20100225AAS	38 38 48.0 96 16 19.0	25.000 100	116.5 500	41.5 Hutchinson Community Colle	-12.1*<	40.8
228D Newton	K228DY	LIC _C_ KS	0.0 0.0	0.00 BLFT20041227ABJ	38 01 47.0 97 18 53.0	0.250 68	17.1 508	5.2 Bible Broadcasting Networ	9.5R	-9.5M
281D Mcpherson	K281BQ	CP _C_ KS	330.9 150.7	55.39 BNPFT20130312ABD	38 27 53.0 97 37 27.0	0.205 90	35.8 542	10.6 Community Broadcasting, In	9.5	10.8
228C3 Andover	KDGS	CP NCX KS	170.5 350.5	35.69 BPH20140421ADG	37 42 47.0 97 14 51.0	15.000 114	17.1 528	5.2 Entercom License, LIc	11.5R	24.2M
282C1 Great Bend	KVGB-FM	LIC _CX KS	289.8 108.9	134.85 BMLH20140804ABH	38 25 54.0 98 46 18.0	100.000 247	99.5 811	67.8 Eagle Communications, Inc.	24.5	51.7
227D El Dorado	K227AX	LIC _C_ KS	123.4 303.7	45.33 BLFT20070723AAM	37 48 16.0 96 53 02.0	0.170 108	17.1 516	5.2 Community Broadcasting, In	9.5R	35.8M
281C3 Fredonia	KGGF-FM	LIC NCN KS	117.0 298.0	157.39 BLH19970724KA	37 22 31.0 95 43 41.0	7.300 163	96.3 427	34.8 Kggf-kusn, Inc.	50.0	84.7
One-Step Application From Channel 281A										
281C Oklahoma City	KMGL	LIC _C_ OK	183.2 3.1	275.00 BLH20070907ABU	35 33 36.0 97 29 07.0	100.000 472	188.7 822	85.0 Tyler Media, L.I.c.	75.4	152.8
228A Eureka	KOTE	LIC _CN KS	106.1 286.7	93.68 BLH19910304KC	37 47 29.0 96 17 25.0	3.000 98	17.1 439	5.2 Niemyer Communications LI	9.5R	84.2M
278C2 Ogden	KQLA	LIC NCN KS	25.8 206.2	139.28 BLH19940617KD	39 09 21.0 96 36 44.0	41.000 95	4.4 447	41.5 Eagle Communications, Inc.	126.4	96.7

Terrain database is NGDC 30 SEC , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
 Contour distances are on direct line to and from reference station. Reference zone= West Zone, 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 protected contour.
 < = Contour Overlap

Green Text denotes the K228DY - Newton, KS facility to be modified by this Form 349 Minor I.F. Frequency Change Application. This facility need not be protected.

Yellow Highlighted Text denotes a §74.1204(d) waiver request for Second Adjacent Channel Given Interference toward KEYN-FM - Wichita, KS (CH279C0) and KFXJ(FM) - Augusta, KS (CH283C2) as included in **Exhibit 13.6a** and **13.6b**. Protection from 65 meters to the extent of the worst case calculated interference contour has been demonstrated through a downward radiation study as included in **Exhibit 13.6a**. Full protection will be afforded KEYN-FM and KFXJ(FM) from 65 meters to the extent of the calculated interference contour as this area will not reach the ground nor a seven meter artificial plane representing a standard two story home when taking into account the downward radiation characteristics of the antenna as supplied by the antenna manufacturer. A copy of the antenna manufacturer specifications has been included in **Exhibit 13.8**. The portion of the §74.1204(d) KEYN-FM - Wichita, KS (CH279C0) and KFXJ(FM) - Augusta, KS (CH283C2) protection within 65 meters of the site is currently void of population, buildings (with the exception of the dedicated transmitter building) or major roads as noted in **Exhibit 13.6b**.

Exhibit 13.6a **§74.1204(d) 2nd Adjacent Channel** **Given Interference Waiver Request with** **KEYN-FM - Wichita, KS** **KFXJ(FM) - Augusta, KS**



Proposed Antenna: 2 Bay SWR FMEC-2 - Fully Spaced
Proposed Power: 0.25 kW
Antenna Height AGL: 54 meters
Interference Contour: 113 dBu F(50:10)
Artificial Ground Plane Height: 7 meters
Distance (Free Space) Equation: $= (10^4 \cdot (106.92 - \text{desired dBu}) + (\text{ERP in dBk}) / 20) \cdot 1000$
Field Strength (dBu) Equation: $= 106.92 - (20 \cdot (\text{LOG10}(\text{DistMeters} / 1000))) + (\text{ERP in dBk})$

Depression Angle	Antenna Relative Field	ERP in kW	ERP in dBk	Distance from Ant. to Interference Contour	Distance from Ant. to Artificial Plane	Field Strength in dBu @ Artificial Plane	Distance from Ant. to Ground Level	Field Strength in dBu @ Ground Level
0°	1.000	0.250	-6.02	248.30 m	infinite	---	---	---
-5°	0.959	0.230	-6.38	238.12 m	539.26 m	105.90 dBu	619.58 m	104.69 dBu
-10°	0.843	0.178	-7.50	209.31 m	270.66 m	110.77 dBu	310.97 m	109.56 dBu
-15°	0.666	0.111	-9.55	165.37 m	181.59 m	112.19 dBu	208.64 m	110.98 dBu
-20°	0.450	0.051	-12.96	111.73 m	137.42 m	111.20 dBu	157.89 m	110.00 dBu
-25°	0.220	0.012	-19.17	54.63 m	111.21 m	106.82 dBu	127.77 m	105.62 dBu
-30°	0.001	0.000	-66.02	0.25 m	94.00 m	61.44 dBu	108.00 m	60.23 dBu
-35°	0.192	0.009	-20.35	47.67 m	81.94 m	108.30 dBu	94.15 m	107.09 dBu
-40°	0.342	0.029	-15.34	84.92 m	73.12 m	114.30 dBu	84.01 m	113.09 dBu
-45°	0.446	0.050	-13.03	110.74 m	66.47 m	117.43 dBu	76.37 m	116.23 dBu
-50°	0.503	0.063	-11.99	124.89 m	61.35 m	119.17 dBu	70.49 m	117.97 dBu
-55°	0.519	0.067	-11.72	128.87 m	57.38 m	120.03 dBu	65.92 m	118.82 dBu
-60°	0.502	0.063	-12.01	124.64 m	54.27 m	120.22 dBu	62.35 m	119.02 dBu
-65°	0.460	0.053	-12.77	114.22 m	51.86 m	119.86 dBu	59.58 m	118.65 dBu
-70°	0.401	0.040	-13.96	99.57 m	50.02 m	118.98 dBu	57.47 m	117.77 dBu
-75°	0.331	0.027	-15.62	82.19 m	48.66 m	117.55 dBu	55.90 m	116.35 dBu
-80°	0.256	0.016	-17.86	63.56 m	47.73 m	115.49 dBu	54.83 m	114.28 dBu
-85°	0.178	0.008	-21.01	44.20 m	47.13 m	112.43 dBu	54.21 m	111.23 dBu
-90°	0.001	0.000	-66.02	0.25 m	47.00 m	67.46 dBu	54.00 m	66.25 dBu

KEYN-FM - 80.25 dBu F(50:50) Contour

KFXJ(FM) - 73.0 dBu F(50:50) Contour

CH281D.P +

NGDC 30 SEC Terrain Database
U.S. Census 2010 PL Database



Terrain
386 470 m

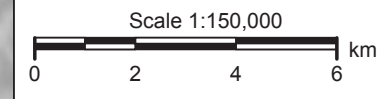
CH281D.P
Newton, KS
Proposed Operation
Facility ID: 142769
Latitude: 38-01-47 N
Longitude: 097-18-53 W
ERP: 0.25 kW
Channel: 281D (104.1 MHz)
AMSL Height: 506.0 m
Horiz. Pattern: Omni

KFXJ(FM)
Augusta, KS
BLH20140903AHM
Facility ID: 37133
Latitude: 37-48-15 N
Longitude: 097-16-04 W
ERP: 47.00 kW
Channel: 283C2 (104.5 MHz)
AMSL Height: 570.7 m
Horiz. Pattern: Directional

KEYN-FM
Wichita, KS
BLH20031110AMY
Facility ID: 53151
Latitude: 37-48-01 N
Longitude: 097-31-29 W
ERP: 100.00 kW
Channel: 279C0 (103.7 MHz)
AMSL Height: 729.0 m
Horiz. Pattern: Omni

The portion of the §74.1204(d) KEYN-FM - Wichita, KS (CH279C0) and KFXJ(FM) - Augusta, KS (CH283C2) protection from 65 meters to the extent of the worst case calculated 113.0 dBu F(50:10) Interference Contour, corresponding to the worst case KFXJ(FM) 73.0 dBu F(50:50) Protected Contour, has been demonstrated through a downward radiation study as included in *Exhibit 13.6a*. Full protection will be afforded KEYN-FM and KFXJ(FM) from 65 meters to the extent of the calculated 113.0 dBu F(50:10) interference contour as this area will not reach the ground nor a seven meter artificial plane representing a standard two story home when taking into account the downward radiation characteristics of the antenna as supplied by the antenna manufacturer. A copy of the antenna manufacturer specifications has been included in *Exhibit 13.7*.

The portion of the §74.1204(d) KEYN-FM - Wichita, KS (CH279C0) and KFXJ(FM) - Augusta, KS (CH283C2) protection within 65 meters of the site is currently void of population, buildings (with the exception of the dedicated transmitter building) or major roads as noted in *Exhibit 13.6b*.



+ KEYN-FM

+ KFXJ(FM)

Exhibit 13.6b
§74.1204(d) 2nd Adjacent Channel
Given Interference Waiver Request with
KEYN-FM - Wichita, KS
KFXJ(FM) - Augusta, KS

Site Location (NAD 27)
NL: 38° 01' 47"
WL: 97° 18' 53"
(38-01-46.9NL; 97-18-54.1WL NAD1983)

65 meter Radius

The portion of the §74.1204(d) KEYN-FM - Wichita, KS (CH279C0) and KFXJ(FM) - Augusta, KS (CH283C2) protection from 65 meters to the extent of the worst case calculated 113.0 dBμ F(50:10) Interference Contour, corresponding to the worst case KFXJ(FM) 73.0 dBμ F(50:50) Protected Contour, has been demonstrated through a downward radiation study as included in **Exhibit 13.6a**. Full protection will be afforded KEYN-FM and KFXJ(FM) from 65 meters to the extent of the calculated 113.0 dBμ F(50:10) interference contour as this area will not reach the ground nor a seven meter artificial plane representing a standard two story home when taking into account the downward radiation characteristics of the antenna as supplied by the antenna manufacturer. A copy of the antenna manufacturer specifications has been included in **Exhibit 13.7**.

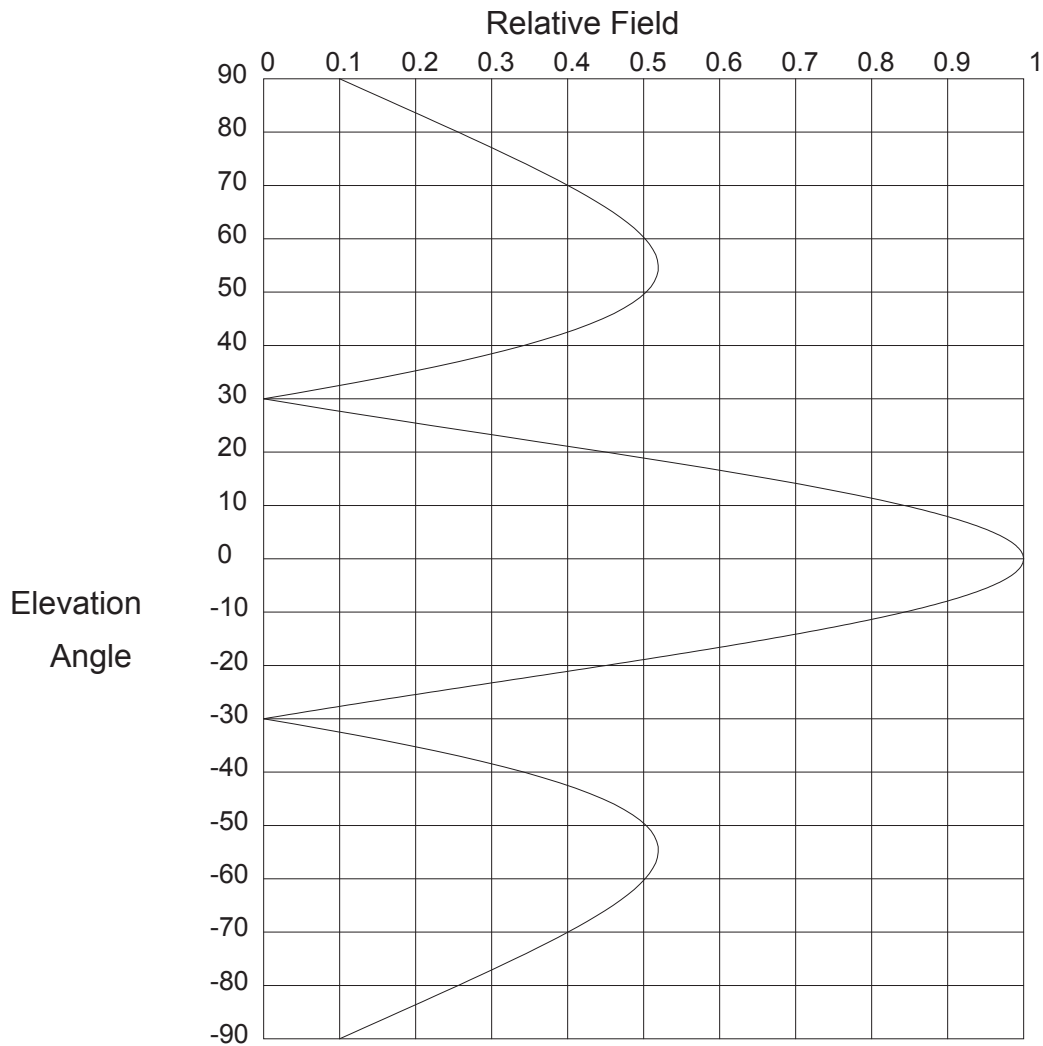
The portion of the §74.1204(d) KEYN-FM - Wichita, KS (CH279C0) and KFXJ(FM) - Augusta, KS (CH283C2) protection within 65 meters of the site is currently void of population, buildings (with the exception of the dedicated transmitter building) or major roads as noted in **Exhibit 13.6b**.



0 300 600ft



Exhibit 13.7 - Copy of Manufacturer's Vertical Radiation Pattern Documentation



Elevation Pattern

Scale: Linear

Units: Field, Relative

Systems With Reliability INC.

Date: 5/23/2008

CLIENT: *Fifth Avenue*

ANTENNA TYPE: FM 1/2

FREQUENCY: 98.5 MHz

PATTERN POL.: Circular

DIRECTIVITY(Peak): 1.918/2.828 dBd

DIRECTIVITY(Horiz): 1.918/2.828 dBd

Beam Tilt (Deg.) : 0

Null Fill(s)(%) : 0, 0, 0

Exhibit 13.7 - Copy of Manufacturer's Vertical Radiation Pattern Documentation



Relative Field Tabulation

Elev. Angle	Rel. Fld(dB)	Elev. Angle	Rel. Fld(dB)	Elev. Angle	Rel. Fld(dB)
90.0	.10 (-20)	52.0	.514 (-5.775)	14.0	.705 (-3.031)
89.0	.116 (-18.733)	51.0	.51 (-5.855)	13.0	.743 (-2.581)
88.0	.131 (-17.627)	50.0	.503 (-5.963)	12.0	.779 (-2.174)
87.0	.147 (-16.648)	49.0	.495 (-6.101)	11.0	.812 (-1.809)
86.0	.163 (-15.768)	48.0	.486 (-6.272)	10.0	.843 (-1.482)
85.0	.178 (-14.971)	47.0	.474 (-6.479)	9.8	.849 (-1.421)
84.0	.194 (-14.242)	46.0	.461 (-6.724)	9.6	.855 (-1.361)
83.0	.21 (-13.571)	45.0	.446 (-7.013)	9.4	.861 (-1.303)
82.0	.225 (-12.951)	44.0	.429 (-7.349)	9.2	.866 (-1.246)
81.0	.241 (-12.374)	43.0	.41 (-7.738)	9.0	.872 (-1.191)
80.0	.256 (-11.836)	42.0	.39 (-8.189)	8.8	.877 (-1.137)
79.0	.271 (-11.332)	41.0	.367 (-8.709)	8.6	.883 (-1.084)
78.0	.286 (-10.859)	40.0	.342 (-9.31)	8.4	.888 (-1.033)
77.0	.301 (-10.415)	39.0	.316 (-10.008)	8.2	.893 (-0.983)
76.0	.316 (-9.997)	38.0	.288 (-10.824)	8.0	.898 (-0.935)
75.0	.331 (-9.603)	37.0	.257 (-11.786)	7.8	.903 (-0.887)
74.0	.345 (-9.231)	36.0	.225 (-12.937)	7.6	.908 (-0.841)
73.0	.36 (-8.881)	35.0	.192 (-14.343)	7.4	.912 (-0.797)
72.0	.374 (-8.551)	34.0	.156 (-16.113)	7.2	.917 (-0.753)
71.0	.387 (-8.24)	33.0	.119 (-18.454)	7.0	.921 (-0.711)
70.0	.401 (-7.948)	32.0	.081 (-21.828)	6.8	.926 (-0.67)
69.0	.413 (-7.673)	31.0	.041 (-27.712)	6.6	.93 (-0.631)
68.0	.426 (-7.417)	30.0	.00 (-50)	6.4	.934 (-0.593)
67.0	.438 (-7.178)	29.0	.042 (-27.469)	6.2	.938 (-0.556)
66.0	.449 (-6.956)	28.0	.086 (-21.343)	6.0	.942 (-0.52)
65.0	.46 (-6.751)	27.0	.13 (-17.727)	5.8	.946 (-0.485)
64.0	.47 (-6.563)	26.0	.175 (-15.145)	5.6	.949 (-0.452)
63.0	.479 (-6.392)	25.0	.22 (-13.135)	5.4	.953 (-0.42)
62.0	.488 (-6.239)	24.0	.266 (-11.491)	5.2	.956 (-0.389)
61.0	.495 (-6.103)	23.0	.312 (-10.103)	5.0	.959 (-0.36)
60.0	.502 (-5.986)	22.0	.359 (-8.906)	4.8	.963 (-0.331)
59.0	.508 (-5.887)	21.0	.405 (-7.858)	4.6	.966 (-0.304)
58.0	.512 (-5.807)	20.0	.45 (-6.929)	4.4	.969 (-0.278)
57.0	.516 (-5.747)	19.0	.495 (-6.1)	4.2	.971 (-0.253)
56.0	.518 (-5.708)	18.0	.54 (-5.356)	4.0	.974 (-0.229)
55.0	.519 (-5.69)	17.0	.583 (-4.685)	3.8	.976 (-0.207)
54.0	.519 (-5.694)	16.0	.625 (-4.078)	3.6	.979 (-0.186)
53.0	.517 (-5.722)	15.0	.666 (-3.528)	3.4	.981 (-0.165)

Systems With Reliability INC.

Page 1 of 3

CLIENT: *Fifth Avenue*

Date: 5/23/2008

ANTENNA TYPE: FM 1/2

FREQUENCY: 98.5 MHz

PATTERN POL.: Circular

DIRECTIVITY(Peak): 1.918/2.828 dBd

Beam Tilt (Deg.) : 0

DIRECTIVITY(Horiz): 1.918/2.828 dBd

Null Fill(s)(%) : 0, 0, 0

Exhibit 13.7 - Copy of Manufacturer's Vertical Radiation Pattern Documentation



Relative Field Tabulation

Elev. Angle	Rel. Fld(dB)	Elev. Angle	Rel. Fld(dB)	Elev. Angle	Rel. Fld(dB)
3.2	.983 (-0.146)	-4.4	.969 (-0.278)	-12.0	.779 (-2.174)
3.0	.985 (-0.129)	-4.6	.966 (-0.304)	-12.2	.772 (-2.252)
2.8	.987 (-0.112)	-4.8	.963 (-0.331)	-12.4	.765 (-2.332)
2.6	.989 (-0.097)	-5.0	.959 (-0.36)	-12.6	.757 (-2.413)
2.4	.991 (-0.082)	-5.2	.956 (-0.389)	-12.8	.75 (-2.496)
2.2	.992 (-0.069)	-5.4	.953 (-0.42)	-13.0	.743 (-2.581)
2.0	.993 (-0.057)	-5.6	.949 (-0.452)	-13.2	.736 (-2.667)
1.8	.995 (-0.046)	-5.8	.946 (-0.485)	-13.4	.728 (-2.755)
1.6	.996 (-0.037)	-6.0	.942 (-0.52)	-13.6	.721 (-2.845)
1.4	.997 (-0.028)	-6.2	.938 (-0.556)	-13.8	.713 (-2.937)
1.2	.998 (-0.021)	-6.4	.934 (-0.593)	-14.0	.705 (-3.031)
1.0	.998 (-0.014)	-6.6	.93 (-0.631)	-14.2	.698 (-3.126)
.8	.999 (-0.009)	-6.8	.926 (-0.67)	-14.4	.69 (-3.224)
.6	.999 (-0.005)	-7.0	.921 (-0.711)	-14.6	.682 (-3.323)
.4	1.00 (-0.002)	-7.2	.917 (-0.753)	-14.8	.674 (-3.425)
.2	1.00 (-0.001)	-7.4	.912 (-0.797)	-15.0	.666 (-3.528)
.0	1.00 (0)	-7.6	.908 (-0.841)	-15.2	.658 (-3.634)
-.2	1.00 (-0.001)	-7.8	.903 (-0.887)	-15.4	.65 (-3.742)
-.4	1.00 (-0.002)	-8.0	.898 (-0.935)	-15.6	.642 (-3.851)
-.6	.999 (-0.005)	-8.2	.893 (-0.983)	-15.8	.634 (-3.963)
-.8	.999 (-0.009)	-8.4	.888 (-1.033)	-16.0	.625 (-4.078)
-1.0	.998 (-0.014)	-8.6	.883 (-1.084)	-16.2	.617 (-4.194)
-1.2	.998 (-0.021)	-8.8	.877 (-1.137)	-16.4	.609 (-4.313)
-1.4	.997 (-0.028)	-9.0	.872 (-1.191)	-16.6	.60 (-4.435)
-1.6	.996 (-0.037)	-9.2	.866 (-1.246)	-16.8	.592 (-4.558)
-1.8	.995 (-0.046)	-9.4	.861 (-1.303)	-17.0	.583 (-4.685)
-2.0	.993 (-0.057)	-9.6	.855 (-1.361)	-17.2	.575 (-4.814)
-2.2	.992 (-0.069)	-9.8	.849 (-1.421)	-17.4	.566 (-4.945)
-2.4	.991 (-0.082)	-10.0	.843 (-1.482)	-17.6	.557 (-5.079)
-2.6	.989 (-0.097)	-10.2	.837 (-1.544)	-17.8	.549 (-5.216)
-2.8	.987 (-0.112)	-10.4	.831 (-1.608)	-18.0	.54 (-5.356)
-3.0	.985 (-0.129)	-10.6	.825 (-1.674)	-18.2	.531 (-5.499)
-3.2	.983 (-0.146)	-10.8	.818 (-1.74)	-18.4	.522 (-5.644)
-3.4	.981 (-0.165)	-11.0	.812 (-1.809)	-18.6	.513 (-5.793)
-3.6	.979 (-0.186)	-11.2	.805 (-1.879)	-18.8	.504 (-5.945)
-3.8	.976 (-0.207)	-11.4	.799 (-1.95)	-19.0	.495 (-6.1)
-4.0	.974 (-0.229)	-11.6	.792 (-2.023)	-19.2	.486 (-6.259)
-4.2	.971 (-0.253)	-11.8	.785 (-2.098)	-19.4	.477 (-6.421)

Systems With Reliability INC.

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CLIENT: *Fifth Avenue*

Date: 5/23/2008

ANTENNA TYPE: FM 1/2

FREQUENCY: 98.5 MHz

PATTERN POL.: Circular

DIRECTIVITY(Peak): 1.918/2.828 dBd

Beam Tilt (Deg.) : 0

DIRECTIVITY(Horiz): 1.918/2.828 dBd

Null Fill(s)(%) : 0, 0, 0

Exhibit 13.7 - Copy of Manufacturer's Vertical Radiation Pattern Documentation



Relative Field Tabulation

Elev. Angle	Rel. Fld(dB)	Elev. Angle	Rel. Fld(dB)	Elev. Angle	Rel. Fld(dB)
-19.6	.468 (-6.587)	-27.2	.121 (-18.344)	-54.0	.519 (-5.694)
-19.8	.459 (-6.756)	-27.4	.112 (-19.006)	-55.0	.519 (-5.69)
-20.0	.45 (-6.929)	-27.6	.103 (-19.721)	-56.0	.518 (-5.708)
-20.2	.441 (-7.106)	-27.8	.094 (-20.496)	-57.0	.516 (-5.747)
-20.4	.432 (-7.288)	-28.0	.086 (-21.343)	-58.0	.512 (-5.807)
-20.6	.423 (-7.473)	-28.2	.077 (-22.278)	-59.0	.508 (-5.887)
-20.8	.414 (-7.663)	-28.4	.068 (-23.322)	-60.0	.502 (-5.986)
-21.0	.405 (-7.858)	-28.6	.06 (-24.503)	-61.0	.495 (-6.103)
-21.2	.396 (-8.057)	-28.8	.051 (-25.863)	-62.0	.488 (-6.239)
-21.4	.386 (-8.261)	-29.0	.042 (-27.469)	-63.0	.479 (-6.392)
-21.6	.377 (-8.471)	-29.2	.034 (-29.429)	-64.0	.47 (-6.563)
-21.8	.368 (-8.686)	-29.4	.025 (-31.951)	-65.0	.46 (-6.751)
-22.0	.359 (-8.906)	-29.6	.017 (-35.496)	-66.0	.449 (-6.956)
-22.2	.349 (-9.132)	-29.8	.008 (-41.54)	-67.0	.438 (-7.178)
-22.4	.34 (-9.365)	-30.0	.00 (-50)	-68.0	.426 (-7.417)
-22.6	.331 (-9.604)	-31.0	.041 (-27.712)	-69.0	.413 (-7.673)
-22.8	.322 (-9.85)	-32.0	.081 (-21.828)	-70.0	.401 (-7.948)
-23.0	.312 (-10.103)	-33.0	.119 (-18.454)	-71.0	.387 (-8.24)
-23.2	.303 (-10.364)	-34.0	.156 (-16.113)	-72.0	.374 (-8.551)
-23.4	.294 (-10.632)	-35.0	.192 (-14.343)	-73.0	.36 (-8.881)
-23.6	.285 (-10.909)	-36.0	.225 (-12.937)	-74.0	.345 (-9.231)
-23.8	.276 (-11.195)	-37.0	.257 (-11.786)	-75.0	.331 (-9.603)
-24.0	.266 (-11.491)	-38.0	.288 (-10.824)	-76.0	.316 (-9.997)
-24.2	.257 (-11.797)	-39.0	.316 (-10.008)	-77.0	.301 (-10.415)
-24.4	.248 (-12.113)	-40.0	.342 (-9.31)	-78.0	.286 (-10.859)
-24.6	.239 (-12.441)	-41.0	.367 (-8.709)	-79.0	.271 (-11.332)
-24.8	.23 (-12.781)	-42.0	.39 (-8.189)	-80.0	.256 (-11.836)
-25.0	.22 (-13.135)	-43.0	.41 (-7.738)	-81.0	.241 (-12.374)
-25.2	.211 (-13.503)	-44.0	.429 (-7.349)	-82.0	.225 (-12.951)
-25.4	.202 (-13.887)	-45.0	.446 (-7.013)	-83.0	.21 (-13.571)
-25.6	.193 (-14.287)	-46.0	.461 (-6.724)	-84.0	.194 (-14.242)
-25.8	.184 (-14.706)	-47.0	.474 (-6.479)	-85.0	.178 (-14.971)
-26.0	.175 (-15.145)	-48.0	.486 (-6.272)	-86.0	.163 (-15.768)
-26.2	.166 (-15.606)	-49.0	.495 (-6.101)	-87.0	.147 (-16.648)
-26.4	.157 (-16.092)	-50.0	.503 (-5.963)	-88.0	.131 (-17.627)
-26.6	.148 (-16.605)	-51.0	.51 (-5.855)	-89.0	.116 (-18.733)
-26.8	.139 (-17.149)	-52.0	.514 (-5.775)	-90.0	.10 (-20)
-27.0	.13 (-17.727)	-53.0	.517 (-5.722)	90.0	.00 (-50)

Systems With Reliability INC.

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CLIENT: *Fifth Avenue*

Date: 5/23/2008

ANTENNA TYPE: FM 1/2

FREQUENCY: 98.5 MHz

PATTERN POL.: Circular

DIRECTIVITY(Peak): 1.918/2.828 dBd

Beam Tilt (Deg.) : 0

DIRECTIVITY(Horiz): 1.918/2.828 dBd

Null Fill(s)(%) : 0, 0, 0