

Kanza Society, Inc.
Amendment to Application for New NCE Broadcast Station
BNPED - 20071018BDH
Guymon, OK, CH 220, CLASS A
FCC Form 340
January 3, 2008

EXHIBIT 16: Contour Overlap and Spacing Requirements

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

This exhibit is divided into the following sections to fully address the questions included under Section 73.509 and Section 73.207, as applicable.

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16a

Initial contour overlap study for co-, 1st, 2nd and 3rd adjacent channels and channel 53 or 54 channels removed (IF) separations

An FM interference study using Dataworld's FM Study program and based on the HAAT of eight standard radials and a non-directional antenna showed prohibited contour overlap between the Proposed station and two existing co-, 1st, 2nd- and 3rd adjacent channel stations authorizations and applications: KPSU (1st adjacent) and application BNPED-20071018AZG (co-channel)¹. This overlap is addressed by use of a directional antenna as detailed in sections b. and c. of this exhibit.

The study showed no prohibited interference to stations 53 or 54 channels removed.

Details of this FM interference study are provided below.

BIAfn/Dataworld FM Channel Study

Study parameters:

Safety Zone: 30.0 km (18.6 mi)
 Safety dB: 3.0
 Channel(s): 220 A
 Coordinates: N 36° 42' 43.0" W 101° 27' 27.0"
 Effective radiated power: 0.2 kW
 Antenna 40.2 m (131.9 ft) above average terrain
 FM Translators excluded
 Date: Tuesday, January 01, 2008
 Database: FCC 12/31/2007 12:00:00 AM

Stations with contour overlap based on use of a nondirectional antenna are highlighted.

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)
NEW	APP	KANZA SOCIETY, INC.	*217 A	67.0	3 H	N 36° 42' 43.0"	0.0	0.000	20.76
GUYMON		OK	BNPED-20071018BDH	91.3	1004.0	3 V W 101° 27' 27.0"	0.0	-20.8	SHORT
Proposed Channel 220 A 100 dBuV/m F(50,10) Interfering contour = 0.8 km					NEW Channel 217 A 60 dBuV/m F(50,50) Service contour = 20.0 km				
Proposed Channel 220 A 60 dBuV/m F(50,50) Service contour = 7.7 km					NEW Channel 217 A 100 dBuV/m F(50,10) Interfering contour = 2.0 km				
Note: Application being amended									

¹ Further note on BNPED-20071018AZG (Campo, CO): The applicant is aware that EDUCATIONAL COMMUNICATIONS OF COLORADO SPRINGS, INC. (ECCS) filed a Petition for Reconsideration and Request for Reinstatement Nunc Pro Tunc and accompanying engineering amendment on November 19, 2007 to modify application **BNPED-20071018AZG** that was previously *dismissed* by letter from the Commission on November 8, 2007 for a 47 CFR Section 73.515 violation. The Kanza Society, Inc. filed an Opposition to Petition for Reconsideration to ECCS' petition on November 26, 2007 and ECCS filed a Reply to Opposition to Petition for Reconsideration on December 4, 2007. As of the filing of this application, the Commission had not yet acted on ECCS' pending petition. To enable the granting of this application regardless of Commission's ruling on ECCS' petition, this application does protect the contours of **BNPED-20071018AZG** as petitioned and amended. See Section 16c. of this Exhibit for details.

Call City of License	Auth	Licensee name St	FCC File Number	Chan Freq	HAAT(m) HMSL(m)	ERP (kW)	Latitude Longitude	Br-to -from	Dist (km)	Req (km)
NEW LIBERAL	APP	TOP O TEXAS EDUCATIONAL BROADCASTING KS	BNPED-20071018AKG	*218 C2 91.5	75.0 975.0	30 H 30 V	N 37° 02' 45.0" W 101° 06' 11.0"	40.2 220.4	48.70 12.10	36.60 CLOSE
Proposed Channel 220 A 100 dBuV/m F(50,10) Interfering contour = 0.8 km					NEW Channel 218 C2 60 dBuV/m F(50,50) Service contour = 35.8 km					
Proposed Channel 220 A 60 dBuV/m F(50,50) Service contour = 7.7 km					NEW Channel 218 C2 100 dBuV/m F(50,10) Interfering contour = 3.7 km					
KPSU GOODWELL	LIC	PANHANDLE STATE UNIVERSITY OK	BLED-1726	*219 A 91.7	37.0 1030.0	0.38 H 0.38 V	N 36° 35' 41.0" W 101° 38' 10.0"	230.8 50.7	20.60 0.512	20.09 CLOSE
Proposed Channel 220 A 54 dBuV/m F(50,10) Interfering contour = 11.0 km					KPSU Channel 219 A 60 dBuV/m F(50,50) Service contour = 8.8 km					
Proposed Channel 220 A 60 dBuV/m F(50,50) Service contour = 7.7 km					KPSU Channel 219 A 54 dBuV/m F(50,10) Interfering contour = 12.3 km					
NEW ELKHART	APP	KANZA SOCIETY, INC. KS	BNPED-20071018BDC	*219 A 91.7	81.0 1170.0	0.25 H 0.25 V	N 37° 00' 01.2" W 101° 54' 29.7"	308.8 128.5	51.38 26.73	24.66 CLEAR
Proposed Channel 220 A 54 dBuV/m F(50,10) Interfering contour = 11.0 km					NEW Channel 219 A 60 dBuV/m F(50,50) Service contour = 11.7 km					
Proposed Channel 220 A 60 dBuV/m F(50,50) Service contour = 7.7 km					NEW Channel 219 A 54 dBuV/m F(50,10) Interfering contour = 16.9 km					
NEW BEAVER	APP	BETTER PUBLIC BROADCASTING ASSOC OK	BNPED-20071018AWB	*220 A 91.9	15.0 782.0	1 H	N 36° 51' 28.0" W 100° 30' 36.0"	78.8 259.4	86.11 42.42	43.69 CLEAR
Proposed Channel 220 A 40 dBuV/m F(50,10) Interfering contour = 25.8 km					NEW Channel 220 A 60 dBuV/m F(50,50) Service contour = 10.2 km					
Proposed Channel 220 A 60 dBuV/m F(50,50) Service contour = 7.7 km					NEW Channel 220 A 40 dBuV/m F(50,10) Interfering contour = 35.9 km					
NEW CAMPO	APP	EDUCATIONAL COMMUNICATIONS OF CO CO	BNPED-20071018AZG	*220 A 91.9	69.0 1285.0		N 37° 04' 30.0" W 102° 22' 45.0"	296.5 115.9	91.50 -9.05	100.6 SHORT
DA: ODD FORM 340 @ 240.0°					NEW Channel 220 A 60 dBuV/m F(50,50) Service contour = 27.9 km					
Proposed Channel 220 A 40 dBuV/m F(50,10) Interfering contour = 25.8 km					NEW Channel 220 A 40 dBuV/m F(50,10) Interfering contour = 92.8 km					
Proposed Channel 220 A 60 dBuV/m F(50,50) Service contour = 7.7 km										
See footnote at bottom of page 1 of this Exhibit										
KMZE WOODWARD	LIC	FM 92 BROADCASTERS, INC. OK	BLH-19910711KD	221 C3 92.1	335.0 1012.0	2.15 H 2.15 V	N 36° 16' 06.0" W 99° 26' 56.0"	104.8 286.0	186.6 97.59	89.00 CLEAR
Required separation derived from section 73.207 of FCC rules					KMZE Channel 221 C3 60 dBuV/m F(50,50) Service contour = 39.1 km					
Proposed Channel 220 A 54 dBuV/m F(50,10) Interfering contour = 11.0 km					KMZE Channel 221 C3 54 dBuV/m F(50,10) Interfering contour = 58.6 km					
Proposed Channel 220 A 60 dBuV/m F(50,50) Service contour = 7.7 km										
KIJN-FM FARWELL	LIC	METROPOLITAN RADIO GROUP, INC. TX	BLH-19850621KA	222 C1 92.3	108.0 1353.0	100 H 100 V	N 34° 32' 26.0" W 102° 47' 56.0"	207.1 26.3	269.8 194.8	75.00 CLEAR
Required separation derived from section 73.207 of FCC rules					KIJN-FM Channel 222 C1 60 dBuV/m F(50,50) Service contour = 52.3 km					
Proposed Channel 220 A 100 dBuV/m F(50,10) Interfering contour = 0.8 km					KIJN-FM Channel 222 C1 100 dBuV/m F(50,10) Interfering contour = 6.1 km					
Proposed Channel 220 A 60 dBuV/m F(50,50) Service contour = 7.7 km										
GROOM	VAC	TX	RM-10459	223 A 92.5			N 35° 10' 49.0" W 101° 01' 46.0"	167.1 347.4	174.3 143.3	31.00 CLEAR
Assumed ERP: 6 kW; HAAT: 100 m; Required separation derived from section 73.207 of FCC rules										
KKCV ROZEL	LIC	COMMUNITY BROADCASTING, INC.. KS	BLED-20070209AAE	273 C1 102.5	148.8 823.6	100 H 100 V	N 37° 57' 28.0" W 99° 25' 45.2"	51.7 232.9	226.8 204.8	22.00 CLEAR
Required separation derived from section 73.207 of FCC rules					KKCV Channel 273 C1 91 dBuV/m F(50,50) Service contour = 11.9 km					
Proposed Channel 220 A 91 dBuV/m F(50,10) Interfering contour = 1.3 km										
KLDG LIBERAL	LIC	SEWARD COUNTY BROADCASTING CO., KS	BLH-19941129KA	274 C1 102.7	142.0 1043.0	100 H 100 V	N 37° 02' 45.0" W 101° 06' 11.0"	40.2 220.4	48.70 26.70	22.00 CLEAR
Required separation derived from section 73.207 of FCC rules					KLDG Channel 274 C1 91 dBuV/m F(50,50) Service contour = 11.6 km					
Proposed Channel 220 A 91 dBuV/m F(50,10) Interfering contour = 1.3 km										
>> End of channel 220 A study <<										

16b

Detailed Interference Study and contour map for KPSU using a directional antenna

To avoid prohibited contour overlaps with 1st adjacent KPSU a directional antenna is proposed as detailed in Section VII, Item 12 of the application form. Based on these directional antenna parameters a detailed interference study along each of 360 radials was conducted using the following parameters:

BIAfn/Dataworld Detailed FM Interference Study

Study parameters:

Safety Zone: 30.0 km (18.6 mi)

Safety dB: 3.0

Channel(s): 220 A

Coordinates: N 36° 42' 43.0" W 101° 27' 27.0"

Effective radiated power: 0.2 kW

Antenna 976 m (3201.3 ft) above mean sea level

Directional antenna: User-defined

0,1.000|10,1.000|20,1.000|30,1.000|40,1.000|50,1.000|60,1.000|70,1.000|80,1.000|90,1.000|100,1.000|110,1.000|120,1.000|130,1.000|140,1.000|150,1.000|160,1.000|170,1.000|180,1.000|190,1.000|200,0.791|210,0.612|214,0.400|220,0.300|230,0.300|240,0.283|250,0.283|260,0.255|265,0.187|270,0.187|280,0.187|290,0.224|300,0.224|310,0.224|320,0.283|330,0.367|340,0.628|350,0.791 @ 0.0°

Terrain from USGS 3-second Database

FM Translators excluded

Date: Tuesday, January 01, 2008

Database: FCC 12/31/2007 12:00:00 AM

For KPSU (CH219, 1st adjacent channel), the study shows no prohibited overlap and at least 3 dBu clearance margin between KPSU's 60 dBu (50/50) protected contour and the Proposed station's 54dBu (50/10) interference contour across all radials.

Overlap between the Proposed station's 60 dBu (50/50) protected contour and KPSU's 54 dBu (50/10) interference contour is also avoided by use of the directional antenna. Results of the study for all radials with clearances of less than 3 dBu are shown in the table below.

A contour map depicting the protected and interfering contours for KPSU and the Proposed station is also provided following the table.

Proposed 220 A 60 dBuV/m Protected Contour						KPSU 219 A 219 A 54 dBuV/m Interference Contour						
Az (deg)	HAAT (m)	ERP (dBk)	Dist (km)	Latitude	Longitude	Az (deg)	HAAT (m)	ERP (dBk)	Dist (km)	F.S. (dBuV/m)	Margin (dB)	Allowed ERP (dBkW)
159.8	41.6	-7.0	7.9	N 36° 38' 43.6"	W 101° 25' 37.1"	73.1	59.6	-4.2	19.5	51.1	2.9	-4.1
160.8	40.9	-7.0	7.8	N 36° 38' 44.1"	W 101° 25' 43.1"	73.0	59.6	-4.2	19.4	51.2	2.8	-4.2

Proposed 220 A 60 dBuV/m Protected Contour					
Az (deg)	HAAT (m)	ERP (dBk)	Dist (km)	Latitude	Longitude
161.8	41.0	-7.0	7.8	N 36° 38' 42.4"	W 101° 25' 48.2"
162.8	41.4	-7.0	7.9	N 36° 38' 40.1"	W 101° 25' 53.1"
163.8	41.2	-7.0	7.8	N 36° 38' 39.1"	W 101° 25' 58.5"
164.8	41.9	-7.0	7.9	N 36° 38' 36.0"	W 101° 26' 03.2"
165.8	41.8	-7.0	7.9	N 36° 38' 35.2"	W 101° 26' 08.7"
166.8	42.7	-7.0	8.0	N 36° 38' 31.6"	W 101° 26' 13.3"
167.8	43.5	-7.0	8.0	N 36° 38' 28.4"	W 101° 26' 18.2"
168.8	44.3	-7.0	8.1	N 36° 38' 24.3"	W 101° 26' 23.0"
169.8	43.2	-7.0	8.0	N 36° 38' 27.3"	W 101° 26' 29.5"
170.8	41.0	-7.0	7.8	N 36° 38' 33.0"	W 101° 26' 36.4"
171.8	40.5	-7.0	7.8	N 36° 38' 33.7"	W 101° 26' 42.1"
172.8	39.9	-7.0	7.7	N 36° 38' 35.0"	W 101° 26' 47.8"
173.8	40.3	-7.0	7.8	N 36° 38' 33.4"	W 101° 26' 53.0"
174.8	40.8	-7.0	7.8	N 36° 38' 31.4"	W 101° 26' 58.3"
175.8	40.4	-7.0	7.8	N 36° 38' 32.2"	W 101° 27' 03.9"
176.8	39.2	-7.0	7.7	N 36° 38' 35.6"	W 101° 27' 09.6"
177.8	37.1	-7.0	7.4	N 36° 38' 42.1"	W 101° 27' 15.3"
178.8	35.6	-7.0	7.3	N 36° 38' 46.5"	W 101° 27' 20.7"
179.8	36.0	-7.0	7.3	N 36° 38' 45.3"	W 101° 27' 25.8"
180.8	35.4	-7.0	7.3	N 36° 38' 47.4"	W 101° 27' 30.9"
181.8	34.7	-7.0	7.2	N 36° 38' 49.5"	W 101° 27' 36.0"
182.8	34.3	-7.0	7.2	N 36° 38' 50.9"	W 101° 27' 41.0"
183.8	34.4	-7.0	7.2	N 36° 38' 51.0"	W 101° 27' 46.0"
184.8	33.7	-7.0	7.1	N 36° 38' 53.4"	W 101° 27' 50.9"
185.8	33.4	-7.0	7.1	N 36° 38' 54.9"	W 101° 27' 55.7"
186.8	33.0	-7.0	7.0	N 36° 38' 56.5"	W 101° 28' 00.5"
187.8	32.8	-7.0	7.0	N 36° 38' 57.8"	W 101° 28' 05.3"
188.8	33.0	-7.0	7.0	N 36° 38' 57.7"	W 101° 28' 10.3"
189.8	33.8	-7.0	7.1	N 36° 38' 55.8"	W 101° 28' 15.8"
190.8	34.1	-7.1	7.1	N 36° 38' 57.4"	W 101° 28' 20.5"
191.8	33.2	-7.3	6.9	N 36° 39' 03.5"	W 101° 28' 24.0"
192.8	32.0	-7.5	6.7	N 36° 39' 10.8"	W 101° 28' 26.9"
193.8	31.6	-7.7	6.6	N 36° 39' 15.7"	W 101° 28' 30.3"
194.8	30.8	-7.9	6.4	N 36° 39' 21.7"	W 101° 28' 33.1"
195.8	29.8	-8.1	6.3	N 36° 39' 25.5"	W 101° 28' 36.5"
196.8	29.0	-8.3	6.3	N 36° 39' 28.7"	W 101° 28' 40.0"
197.8	28.1	-8.5	6.2	N 36° 39' 31.9"	W 101° 28' 43.3"
198.8	27.5	-8.7	6.1	N 36° 39' 35.2"	W 101° 28' 46.6"
199.8	26.5	-9.0	6.1	N 36° 39' 38.6"	W 101° 28' 49.6"
200.8	25.3	-9.2	6.0	N 36° 39' 41.8"	W 101° 28' 52.7"

KPSU 219 A 219 A 54 dBuV/m Interference Contour						
Az (deg)	HAAT (m)	ERP (dBk)	Dist (km)	F.S. (dBuV/m)	Margin (dB)	Allowed ERP (dBkW)
73.0	59.6	-4.2	19.3	51.3	2.7	-4.3
73.1	59.6	-4.2	19.1	51.4	2.6	-4.4
73.1	59.6	-4.2	19.0	51.5	2.5	-4.5
73.2	59.7	-4.2	18.8	51.7	2.3	-4.7
73.2	59.7	-4.2	18.7	51.8	2.2	-4.8
73.4	59.7	-4.2	18.6	51.9	2.1	-4.9
73.6	59.7	-4.2	18.4	52.0	2.0	-5.0
73.9	59.8	-4.2	18.3	52.2	1.8	-5.1
73.5	59.7	-4.2	18.1	52.3	1.7	-5.3
72.8	59.6	-4.2	18.0	52.3	1.7	-5.3
72.6	59.5	-4.2	17.9	52.4	1.6	-5.4
72.3	59.5	-4.2	17.8	52.5	1.5	-5.5
72.3	59.5	-4.2	17.6	52.7	1.3	-5.7
72.4	59.5	-4.2	17.5	52.8	1.2	-5.8
72.2	59.4	-4.2	17.4	52.9	1.1	-5.9
71.7	59.3	-4.2	17.3	53.0	1.0	-5.9
70.9	59.0	-4.2	17.2	53.0	1.0	-6.0
70.4	58.8	-4.2	17.1	53.0	1.0	-6.0
70.3	58.8	-4.2	17.0	53.1	0.9	-6.1
70.0	58.6	-4.2	16.9	53.2	0.8	-6.2
69.6	58.5	-4.2	16.8	53.3	0.7	-6.3
69.3	58.4	-4.2	16.7	53.3	0.7	-6.3
69.2	58.3	-4.2	16.6	53.4	0.6	-6.4
68.8	58.1	-4.2	16.5	53.5	0.5	-6.5
68.5	58.0	-4.2	16.4	53.5	0.5	-6.5
68.2	57.8	-4.2	16.3	53.6	0.4	-6.6
67.9	57.7	-4.2	16.2	53.7	0.3	-6.6
67.7	57.6	-4.2	16.1	53.3	0.7	-6.3
67.7	57.6	-4.2	15.9	53.5	0.5	-6.5
67.4	57.5	-4.2	15.9	53.6	0.4	-6.7
66.7	57.1	-4.2	15.8	53.5	0.5	-6.8
65.8	56.7	-4.2	15.9	53.4	0.6	-6.9
65.2	56.3	-4.2	15.9	53.4	0.6	-7.1
64.5	55.8	-4.2	15.9	53.3	0.7	-7.2
63.9	55.4	-4.2	15.8	53.2	0.8	-7.4
63.5	55.0	-4.2	15.8	53.2	0.8	-7.5
63.0	54.5	-4.2	15.8	53.2	0.8	-7.7
62.6	54.1	-4.2	15.8	53.1	0.9	-7.9
62.1	53.7	-4.2	15.7	53.1	0.9	-8.0
61.7	53.4	-4.2	15.7	53.1	0.9	-8.2

Proposed 220 A 60 dBuV/m Protected Contour					
Az (deg)	HAAT (m)	ERP (dBk)	Dist (km)	Latitude	Longitude
201.8	23.8	-9.4	5.9	N 36° 39' 45.0"	W 101° 28' 55.6"
202.8	22.4	-9.6	5.9	N 36° 39' 48.3"	W 101° 28' 58.4"
203.8	20.9	-9.8	5.8	N 36° 39' 51.7"	W 101° 29' 01.0"
204.8	19.4	-10.0	5.7	N 36° 39' 55.1"	W 101° 29' 03.5"
205.8	17.6	-10.2	5.6	N 36° 39' 58.7"	W 101° 29' 05.9"
206.8	16.0	-10.5	5.6	N 36° 40' 02.2"	W 101° 29' 08.1"
207.8	14.6	-10.7	5.5	N 36° 40' 05.9"	W 101° 29' 10.1"
208.8	13.8	-10.9	5.4	N 36° 40' 09.6"	W 101° 29' 12.0"
209.8	13.3	-11.2	5.3	N 36° 40' 13.4"	W 101° 29' 13.7"
210.8	13.0	-11.9	5.1	N 36° 40' 20.9"	W 101° 29' 12.5"
211.8	12.8	-12.7	4.8	N 36° 40' 30.1"	W 101° 29' 09.6"
212.8	12.5	-13.6	4.6	N 36° 40' 37.4"	W 101° 29' 07.8"
213.8	12.4	-14.7	4.4	N 36° 40' 45.3"	W 101° 29' 05.1"
214.8	12.3	-15.2	4.2	N 36° 40' 50.0"	W 101° 29' 04.8"
215.8	12.4	-15.6	4.2	N 36° 40' 53.7"	W 101° 29' 05.1"
216.8	12.9	-16.0	4.1	N 36° 40' 57.5"	W 101° 29' 05.3"
217.8	13.6	-16.4	4.0	N 36° 41' 01.4"	W 101° 29' 05.2"
218.8	14.2	-16.9	3.9	N 36° 41' 05.3"	W 101° 29' 04.8"
219.8	14.4	-17.3	3.8	N 36° 41' 09.4"	W 101° 29' 04.2"
220.8	14.5	-17.4	3.7	N 36° 41' 11.4"	W 101° 29' 05.5"
221.8	14.6	-17.4	3.7	N 36° 41' 12.7"	W 101° 29' 07.5"
222.8	14.8	-17.4	3.7	N 36° 41' 14.2"	W 101° 29' 09.5"
223.8	15.0	-17.4	3.7	N 36° 41' 15.6"	W 101° 29' 11.4"
224.8	15.3	-17.4	3.7	N 36° 41' 17.1"	W 101° 29' 13.3"
225.8	15.7	-17.4	3.7	N 36° 41' 18.6"	W 101° 29' 15.1"
226.8	16.4	-17.4	3.7	N 36° 41' 20.1"	W 101° 29' 16.9"
227.8	17.1	-17.4	3.7	N 36° 41' 21.7"	W 101° 29' 18.7"
228.8	17.5	-17.4	3.7	N 36° 41' 23.2"	W 101° 29' 20.5"
229.8	17.9	-17.4	3.7	N 36° 41' 24.8"	W 101° 29' 22.2"
230.8	18.5	-17.5	3.7	N 36° 41' 26.6"	W 101° 29' 23.6"
231.8	18.5	-17.5	3.7	N 36° 41' 28.5"	W 101° 29' 24.9"
232.8	17.0	-17.6	3.7	N 36° 41' 30.4"	W 101° 29' 26.1"
233.8	15.3	-17.6	3.7	N 36° 41' 32.3"	W 101° 29' 27.3"
234.8	14.3	-17.7	3.7	N 36° 41' 34.2"	W 101° 29' 28.4"
235.8	13.4	-17.7	3.7	N 36° 41' 36.1"	W 101° 29' 29.5"
236.8	12.7	-17.8	3.7	N 36° 41' 38.1"	W 101° 29' 30.6"
237.8	12.1	-17.8	3.6	N 36° 41' 40.0"	W 101° 29' 31.6"
238.8	11.9	-17.9	3.6	N 36° 41' 42.0"	W 101° 29' 32.5"
239.8	12.1	-17.9	3.6	N 36° 41' 43.9"	W 101° 29' 33.4"
240.8	12.2	-18.0	3.6	N 36° 41' 45.7"	W 101° 29' 34.6"

KPSU 219 A 219 A 54 dBuV/m Interference Contour						
Az (deg)	HAAT (m)	ERP (dBk)	Dist (km)	F.S. (dBuV/m)	Margin (dB)	Allowed ERP (dBkW)
61.2	53.3	-4.2	15.7	53.1	0.9	-8.4
60.8	53.3	-4.2	15.7	53.1	0.9	-8.7
60.3	53.5	-4.2	15.7	53.1	0.9	-8.9
59.9	53.8	-4.2	15.7	53.2	0.8	-9.2
59.4	54.2	-4.2	15.7	53.2	0.8	-9.5
59.0	55.0	-4.2	15.7	53.3	0.7	-9.8
58.5	55.8	-4.2	15.7	53.4	0.6	-10.2
58.1	56.6	-4.2	15.7	53.5	0.5	-10.5
57.6	57.3	-4.2	15.7	53.6	0.4	-10.8
57.0	58.4	-4.2	15.9	53.6	0.4	-11.5
56.3	59.6	-4.2	16.1	54.0	0.0	-12.7
55.7	60.6	-4.2	16.3	54.0	0.0	-13.6
55.1	61.5	-4.2	16.5	53.9	0.1	-14.6
54.7	62.1	-4.2	16.6	53.9	0.1	-15.2
54.4	62.8	-4.2	16.6	54.0	0.0	-15.6
54.0	63.3	-4.2	16.7	54.0	0.0	-16.0
53.7	63.7	-4.2	16.8	54.0	0.0	-16.4
53.4	64.1	-4.2	16.8	53.9	0.1	-16.8
53.1	64.2	-4.2	16.9	53.9	0.1	-17.2
52.9	64.3	-4.2	16.9	53.9	0.1	-17.3
52.6	64.3	-4.2	16.9	53.9	0.1	-17.3
52.4	64.3	-4.2	16.9	53.9	0.1	-17.4
52.2	64.3	-4.2	16.9	53.9	0.1	-17.4
52.0	64.3	-4.2	16.9	53.9	0.1	-17.4
51.8	64.3	-4.2	16.9	53.9	0.1	-17.4
51.5	64.3	-4.2	16.9	53.9	0.1	-17.4
51.3	64.3	-4.2	16.9	53.9	0.1	-17.4
51.1	64.3	-4.2	16.9	53.9	0.1	-17.4
50.9	64.3	-4.2	16.9	53.9	0.1	-17.4
50.7	64.3	-4.2	16.9	53.9	0.1	-17.4
50.4	64.3	-4.2	16.9	53.9	0.1	-17.5
50.2	64.2	-4.2	16.9	53.9	0.1	-17.5
50.0	64.1	-4.2	16.9	53.9	0.1	-17.5
49.8	64.0	-4.2	16.9	53.8	0.2	-17.5
49.6	63.8	-4.2	16.9	53.8	0.2	-17.6
49.4	63.7	-4.2	17.0	53.8	0.2	-17.6
49.2	63.6	-4.2	17.0	53.8	0.2	-17.6
49.0	63.5	-4.2	17.0	53.7	0.3	-17.6
48.8	63.3	-4.2	17.0	53.7	0.3	-17.6
48.5	63.2	-4.2	17.0	53.6	0.4	-17.6

Proposed 220 A 60 dBuV/m Protected Contour					
Az (deg)	HAAT (m)	ERP (dBk)	Dist (km)	Latitude	Longitude
241.8	12.3	-18.0	3.6	N 36° 41' 47.5"	W 101° 29' 35.8"
242.8	12.4	-18.0	3.6	N 36° 41' 49.3"	W 101° 29' 37.0"
243.8	12.6	-18.0	3.6	N 36° 41' 51.2"	W 101° 29' 38.1"
244.8	12.9	-18.0	3.6	N 36° 41' 53.0"	W 101° 29' 39.2"
245.8	13.8	-18.0	3.6	N 36° 41' 54.9"	W 101° 29' 40.3"
246.8	16.0	-18.0	3.6	N 36° 41' 56.7"	W 101° 29' 41.3"
247.8	18.6	-18.0	3.6	N 36° 41' 58.6"	W 101° 29' 42.3"
248.8	20.2	-18.0	3.6	N 36° 42' 00.5"	W 101° 29' 43.3"
249.8	20.5	-18.0	3.6	N 36° 42' 02.4"	W 101° 29' 44.2"
250.8	21.1	-18.0	3.6	N 36° 42' 04.5"	W 101° 29' 44.5"
251.8	23.0	-18.1	3.6	N 36° 42' 06.7"	W 101° 29' 44.5"
252.8	25.0	-18.2	3.6	N 36° 42' 08.8"	W 101° 29' 44.5"
253.8	26.6	-18.3	3.5	N 36° 42' 10.9"	W 101° 29' 44.4"
254.8	27.6	-18.4	3.5	N 36° 42' 13.0"	W 101° 29' 44.3"
255.8	28.8	-18.5	3.5	N 36° 42' 15.1"	W 101° 29' 44.1"
256.8	29.9	-18.6	3.5	N 36° 42' 17.2"	W 101° 29' 43.9"
257.8	31.2	-18.6	3.5	N 36° 42' 19.0"	W 101° 29' 45.2"
258.8	32.9	-18.7	3.6	N 36° 42' 20.4"	W 101° 29' 49.0"
259.8	35.3	-18.8	3.7	N 36° 42' 21.7"	W 101° 29' 54.0"
260.8	37.1	-19.2	3.7	N 36° 42' 23.7"	W 101° 29' 55.1"
261.8	38.7	-19.7	3.7	N 36° 42' 25.9"	W 101° 29' 54.6"
262.8	40.5	-20.2	3.7	N 36° 42' 28.0"	W 101° 29' 53.9"
263.8	42.9	-20.8	3.7	N 36° 42' 30.1"	W 101° 29' 54.2"
264.8	45.3	-21.4	3.6	N 36° 42' 32.2"	W 101° 29' 53.8"
265.8	47.8	-21.6	3.7	N 36° 42' 34.0"	W 101° 29' 57.4"
266.8	49.1	-21.6	3.8	N 36° 42' 36.1"	W 101° 29' 59.9"
267.8	50.0	-21.6	3.8	N 36° 42' 38.1"	W 101° 30' 01.6"
268.8	50.9	-21.6	3.9	N 36° 42' 40.3"	W 101° 30' 03.3"
269.8	50.3	-21.6	3.8	N 36° 42' 42.5"	W 101° 30' 02.3"
270.8	48.3	-21.6	3.8	N 36° 42' 44.6"	W 101° 29' 58.7"
271.8	45.9	-21.6	3.6	N 36° 42' 46.6"	W 101° 29' 54.2"
272.8	44.4	-21.6	3.6	N 36° 42' 48.6"	W 101° 29' 51.1"
273.8	44.0	-21.6	3.5	N 36° 42' 50.5"	W 101° 29' 50.1"
274.8	43.4	-21.6	3.5	N 36° 42' 52.5"	W 101° 29' 48.7"
275.8	41.9	-21.6	3.4	N 36° 42' 54.2"	W 101° 29' 45.4"
276.8	39.8	-21.6	3.3	N 36° 42' 55.7"	W 101° 29' 40.7"
277.8	37.5	-21.6	3.2	N 36° 42' 57.0"	W 101° 29' 35.5"
278.8	35.5	-21.6	3.1	N 36° 42' 58.5"	W 101° 29' 32.6"
279.8	33.5	-21.6	3.1	N 36° 42' 59.9"	W 101° 29' 29.6"
280.8	31.7	-21.4	3.0	N 36° 43' 01.3"	W 101° 29' 27.4"

KPSU 219 A 219 A 54 dBuV/m Interference Contour						
Az (deg)	HAAT (m)	ERP (dBk)	Dist (km)	F.S. (dBuV/m)	Margin (dB)	Allowed ERP (dBkW)
48.3	62.9	-4.2	17.1	53.6	0.4	-17.6
48.1	62.7	-4.2	17.1	53.6	0.4	-17.5
47.9	62.4	-4.2	17.1	53.5	0.5	-17.5
47.7	62.0	-4.2	17.1	53.5	0.5	-17.4
47.5	61.6	-4.2	17.1	53.4	0.6	-17.3
47.3	61.3	-4.2	17.1	53.3	0.7	-17.3
47.1	60.9	-4.2	17.2	53.3	0.7	-17.2
46.9	60.6	-4.2	17.2	53.2	0.8	-17.2
46.7	60.3	-4.2	17.2	53.1	0.9	-17.1
46.6	60.0	-4.2	17.2	53.1	0.9	-17.1
46.4	59.7	-4.2	17.3	53.0	1.0	-17.1
46.2	59.5	-4.2	17.3	52.9	1.1	-17.1
46.1	59.3	-4.2	17.4	52.9	1.1	-17.1
45.9	59.1	-4.2	17.4	52.8	1.2	-17.2
45.8	58.9	-4.2	17.5	52.7	1.3	-17.2
45.7	58.7	-4.2	17.5	52.7	1.3	-17.2
45.5	58.4	-4.2	17.5	52.6	1.4	-17.3
45.1	58.0	-4.2	17.5	52.6	1.4	-17.3
44.8	57.5	-4.2	17.4	52.6	1.4	-17.4
44.6	57.3	-4.2	17.5	52.5	1.5	-17.7
44.4	57.1	-4.2	17.5	52.4	1.6	-18.2
44.3	57.0	-4.2	17.6	52.4	1.6	-18.6
44.2	56.8	-4.2	17.6	52.3	1.7	-19.1
44.0	56.7	-4.2	17.7	52.2	1.8	-19.6
43.7	56.3	-4.2	17.7	52.2	1.8	-19.7
43.4	56.0	-4.2	17.7	52.1	1.9	-19.7
43.2	55.8	-4.2	17.7	52.1	1.9	-19.6
42.9	55.6	-4.2	17.7	52.0	2.0	-19.6
42.8	55.5	-4.2	17.8	52.0	2.0	-19.5
42.9	55.6	-4.2	17.9	51.9	2.1	-19.4
43.0	55.7	-4.2	18.0	51.8	2.2	-19.4
43.1	55.7	-4.2	18.1	51.7	2.3	-19.3
43.0	55.6	-4.2	18.2	51.7	2.3	-19.2
42.9	55.6	-4.2	18.2	51.6	2.4	-19.2
43.0	55.7	-4.2	18.3	51.5	2.5	-19.1
43.2	55.8	-4.2	18.4	51.5	2.5	-19.0
43.4	56.0	-4.2	18.5	51.4	2.6	-18.9
43.5	56.0	-4.2	18.6	51.3	2.7	-18.9
43.5	56.1	-4.2	18.7	51.3	2.7	-18.8
43.6	56.1	-4.2	18.8	51.2	2.8	-18.6

Proposed 220 A 60 dBuV/m Protected Contour					
Az (deg)	HAAT (m)	ERP (dBk)	Dist (km)	Latitude	Longitude
281.8	30.1	-21.3	3.0	N 36° 43' 02.9"	W 101° 29' 26.2"
282.8	28.9	-21.1	3.0	N 36° 43' 04.7"	W 101° 29' 26.6"
283.8	27.6	-20.9	3.1	N 36° 43' 06.5"	W 101° 29' 27.0"
284.8	25.7	-20.8	3.1	N 36° 43' 08.4"	W 101° 29' 27.3"

KPSU 219 A 219 A 54 dBuV/m Interference Contour						
Az (deg)	HAAT (m)	ERP (dBk)	Dist (km)	F.S. (dBuV/m)	Margin (dB)	Allowed ERP (dBkW)
43.5	56.1	-4.2	18.8	51.2	2.8	-18.4
43.4	55.9	-4.2	18.9	51.1	2.9	-18.2
43.2	55.8	-4.2	18.9	51.1	2.9	-18.0
43.1	55.7	-4.2	18.9	51.0	3.0	-17.8

Guymon, OK - Proposed - KPSU

Prepared by

BIA
fn



Proposed Ch. 220 A
54 dBuV/m (50,10)

KPSU(FM) License
54 dBuV/m (50,10)

Proposed Ch. 220 A
60 dBuV/m (50,50)

Proposed
FM Site

KPSU(FM) License
60 dBuV/m (50,50)

Guymon

KPSU(FM)
License Site

Goodwell

TEXAS COUNTY

OKLAHOMA

Proposed FM 220A Transmitter Site:
N 36-42-43 W 101-27-27
AMSL = 976 Meters ERP = 0.2 kW

KPSU(FM) License Transmitter Site:
N 36-35-41 W 101-38-10

Scale = 1:100,000 January 2, 2008



16c. Detailed Interference Study and contour map a for New Application BNPED-20071018AZG using directional antenna

Based on the same directional antenna parameters and the detailed interference study used in the KPSU study, no prohibited overlap and at least 3 dBu clearance margin exists between co-channel BNPED-20071018AZG's 60 dBu (50/50) protected contour and the Proposed station's 40 dBu (50/10) interference contour across all radials.

Overlap between the Proposed station's 60 dBu (50/50) protected contour and BNPED-20071018AZG's 40 dBu (50/10) interference contour is also avoided by use of the directional antenna. Results of the study for radials with clearances of less than 3 dBu are shown in the table below.

A contour map depicting the protected and interfering contours for BNPED-20071018AZG and the Proposed station is also provided following the table.

Proposed CH220 A 60 dBuV/m Protected Contour						New Application BNPED-20071018AZG CH220 40 dBuV/m Interference Contour						
Az (deg)	HAAT (m)	ERP (dBk)	Dist (km)	Latitude	Longitude	Az (deg)	HAAT (m)	ERP (dBk)	Dist (km)	F.S. (dBuV/m)	Margin (dB)	Allowed ERP (dBkW)
0.5	23.5	-7.0	6.8	N 36° 46' 22.5"	W 101° 27' 24.6"	112.0	131.4	6.3	88.8	39.4	0.6	-6.4
1.5	24.1	-7.0	6.8	N 36° 46' 22.5"	W 101° 27' 19.8"	112.0	131.3	6.3	88.9	39.3	0.7	-6.3
2.5	24.6	-7.0	6.8	N 36° 46' 22.3"	W 101° 27' 15.1"	111.9	131.2	6.3	89.0	39.3	0.7	-6.3
3.5	25.2	-7.0	6.8	N 36° 46' 22.1"	W 101° 27' 10.3"	111.9	131.2	6.3	89.1	39.3	0.7	-6.3
4.5	25.8	-7.0	6.8	N 36° 46' 21.9"	W 101° 27' 05.5"	111.9	131.2	6.3	89.2	39.2	0.8	-6.2
5.5	26.5	-7.0	6.8	N 36° 46' 21.5"	W 101° 27' 00.7"	111.9	131.1	6.3	89.3	39.2	0.8	-6.2
6.5	27.2	-7.0	6.8	N 36° 46' 21.1"	W 101° 26' 56.0"	111.9	131.1	6.3	89.4	39.2	0.8	-6.1
7.5	28.0	-7.0	6.8	N 36° 46' 20.7"	W 101° 26' 51.2"	111.8	131.0	6.3	89.5	39.1	0.9	-6.1
8.5	28.9	-7.0	6.8	N 36° 46' 20.1"	W 101° 26' 46.5"	111.8	131.0	6.3	89.7	39.1	0.9	-6.1
9.5	29.6	-7.0	6.8	N 36° 46' 19.5"	W 101° 26' 41.8"	111.8	130.9	6.3	89.8	39.1	0.9	-6.0
10.5	30.1	-7.0	6.8	N 36° 46' 18.9"	W 101° 26' 37.1"	111.8	130.9	6.3	89.9	39.0	1.0	-6.0
11.5	30.3	-7.0	6.8	N 36° 46' 18.1"	W 101° 26' 32.4"	111.8	130.9	6.3	90.0	39.0	1.0	-6.0
12.5	30.5	-7.0	6.8	N 36° 46' 17.3"	W 101° 26' 27.7"	111.8	130.9	6.3	90.1	38.9	1.1	-5.9
13.5	30.6	-7.0	6.8	N 36° 46' 16.9"	W 101° 26' 22.9"	111.7	130.8	6.3	90.2	38.9	1.1	-5.9
14.5	30.7	-7.0	6.8	N 36° 46' 16.2"	W 101° 26' 18.2"	111.7	130.8	6.3	90.4	38.9	1.1	-5.9
15.5	30.7	-7.0	6.8	N 36° 46' 15.4"	W 101° 26' 13.5"	111.7	130.8	6.3	90.5	38.8	1.2	-5.8
16.5	31.1	-7.0	6.8	N 36° 46' 15.5"	W 101° 26' 08.4"	111.7	130.7	6.3	90.6	38.8	1.2	-5.8
17.5	31.6	-7.0	6.9	N 36° 46' 16.1"	W 101° 26' 03.1"	111.6	130.6	6.3	90.7	38.8	1.2	-5.8
18.5	32.3	-7.0	7.0	N 36° 46' 16.8"	W 101° 25' 57.7"	111.6	130.5	6.3	90.8	38.7	1.3	-5.7
19.5	33.0	-7.0	7.0	N 36° 46' 17.8"	W 101° 25' 52.0"	111.5	130.4	6.3	90.9	38.7	1.3	-5.7
20.5	33.9	-7.0	7.1	N 36° 46' 19.4"	W 101° 25' 46.0"	111.5	130.3	6.3	91.1	38.6	1.4	-5.6
21.5	35.0	-7.0	7.2	N 36° 46' 21.0"	W 101° 25' 39.8"	111.4	130.2	6.3	91.2	38.6	1.4	-5.6
22.5	36.3	-7.0	7.4	N 36° 46' 23.5"	W 101° 25' 33.0"	111.3	130.0	6.3	91.3	38.6	1.4	-5.5
23.5	37.9	-7.0	7.5	N 36° 46' 26.4"	W 101° 25' 25.7"	111.2	129.8	6.3	91.4	38.5	1.5	-5.5
24.5	39.3	-7.0	7.7	N 36° 46' 28.8"	W 101° 25' 18.5"	111.1	129.7	6.3	91.6	38.5	1.5	-5.4
25.5	40.8	-7.0	7.8	N 36° 46' 31.0"	W 101° 25' 11.2"	111.1	129.5	6.3	91.7	38.4	1.6	-5.4

Proposed CH220 A 60 dBuV/m Protected Contour						New Application BNPED-20071018AZG CH220 40 dBuV/m Interference Contour						
Az (deg)	HAAT (m)	ERP (dBk)	Dist (km)	Latitude	Longitude	Az (deg)	HAAT (m)	ERP (dBk)	Dist (km)	F.S. (dBuV/ m)	Margin (dB)	Allowed ERP (dBkW)
26.5	41.6	-7.0	7.9	N 36° 46' 31.2"	W 101° 25' 05.0"	111.0	129.4	6.3	91.9	38.4	1.6	-5.4
27.5	42.3	-7.0	7.9	N 36° 46' 31.1"	W 101° 24' 58.7"	111.0	129.4	6.3	92.0	38.3	1.7	-5.3
28.5	43.0	-7.0	8.0	N 36° 46' 30.7"	W 101° 24' 52.6"	111.0	129.3	6.3	92.2	38.3	1.7	-5.3
29.5	43.7	-7.0	8.1	N 36° 46' 30.4"	W 101° 24' 46.3"	110.9	129.3	6.3	92.3	38.2	1.8	-5.2
30.5	44.0	-7.0	8.1	N 36° 46' 29.2"	W 101° 24' 40.6"	110.9	129.3	6.3	92.5	38.2	1.8	-5.2
31.5	45.1	-7.0	8.2	N 36° 46' 30.1"	W 101° 24' 33.2"	110.9	129.2	6.3	92.6	38.1	1.9	-5.1
32.5	46.0	-7.0	8.3	N 36° 46' 30.4"	W 101° 24' 26.1"	110.8	129.1	6.3	92.8	38.1	1.9	-5.1
33.5	46.7	-7.0	8.4	N 36° 46' 30.0"	W 101° 24' 19.4"	110.8	129.0	6.3	92.9	38.0	2.0	-5.0
34.5	47.6	-7.0	8.5	N 36° 46' 30.0"	W 101° 24' 12.2"	110.7	129.0	6.3	93.1	38.0	2.0	-5.0
35.5	48.8	-7.0	8.6	N 36° 46' 30.3"	W 101° 24' 04.5"	110.7	128.9	6.3	93.3	37.9	2.1	-4.9
36.5	49.2	-7.0	8.7	N 36° 46' 28.7"	W 101° 23' 58.5"	110.7	128.9	6.3	93.4	37.9	2.1	-4.9
37.5	49.4	-7.0	8.7	N 36° 46' 26.3"	W 101° 23' 53.1"	110.7	128.9	6.3	93.6	37.9	2.1	-4.8
38.5	49.9	-7.0	8.7	N 36° 46' 24.5"	W 101° 23' 47.0"	110.7	128.9	6.3	93.7	37.8	2.2	-4.8
39.5	50.4	-7.0	8.8	N 36° 46' 22.5"	W 101° 23' 41.0"	110.7	128.9	6.3	93.9	37.8	2.2	-4.8
40.5	51.1	-7.0	8.9	N 36° 46' 21.0"	W 101° 23' 34.5"	110.7	128.9	6.3	94.1	37.7	2.3	-4.7
41.5	51.8	-7.0	8.9	N 36° 46' 19.3"	W 101° 23' 28.0"	110.7	128.9	6.3	94.2	37.7	2.3	-4.7
42.5	52.8	-7.0	9.0	N 36° 46' 18.3"	W 101° 23' 20.6"	110.7	128.8	6.3	94.4	37.6	2.4	-4.6
43.5	53.9	-7.0	9.1	N 36° 46' 17.3"	W 101° 23' 13.0"	110.6	128.8	6.3	94.6	37.6	2.4	-4.6
44.5	55.5	-7.0	9.3	N 36° 46' 16.8"	W 101° 23' 04.6"	110.6	128.7	6.3	94.8	37.5	2.5	-4.5
45.5	56.8	-7.0	9.4	N 36° 46' 15.7"	W 101° 22' 56.7"	110.6	128.7	6.3	95.0	37.5	2.5	-4.4
46.5	58.0	-7.0	9.5	N 36° 46' 14.1"	W 101° 22' 49.2"	110.6	128.7	6.3	95.2	37.4	2.6	-4.4
47.5	58.6	-7.0	9.5	N 36° 46' 11.2"	W 101° 22' 43.3"	110.6	128.7	6.3	95.4	37.4	2.6	-4.3
48.5	59.0	-7.0	9.5	N 36° 46' 07.8"	W 101° 22' 38.0"	110.6	128.8	6.3	95.5	37.3	2.7	-4.3
49.5	59.7	-7.0	9.6	N 36° 46' 04.8"	W 101° 22' 32.0"	110.6	128.8	6.3	95.7	37.3	2.7	-4.3
50.5	60.4	-7.0	9.7	N 36° 46' 01.7"	W 101° 22' 25.9"	110.7	128.8	6.3	95.9	37.2	2.8	-4.2
51.5	61.2	-7.0	9.7	N 36° 45' 58.7"	W 101° 22' 19.8"	110.7	128.9	6.3	96.0	37.2	2.8	-4.2
52.5	62.6	-7.0	9.8	N 36° 45' 56.3"	W 101° 22' 12.4"	110.7	128.9	6.3	96.2	37.1	2.9	-4.1
53.5	63.8	-7.0	9.9	N 36° 45' 53.6"	W 101° 22' 05.3"	110.7	128.9	6.3	96.4	37.1	2.9	-4.1
54.5	65.2	-7.0	10.0	N 36° 45' 51.0"	W 101° 21' 57.9"	110.7	128.9	6.3	96.6	37.0	3.0	-4.0
145.5	48.4	-7.0	8.6	N 36° 38' 53.9"	W 101° 24' 10.7"	118.4	134.4	6.7	99.1	37.0	3.0	-4.0
146.5	48.6	-7.0	8.6	N 36° 38' 50.5"	W 101° 24' 15.2"	118.4	134.4	6.7	99.0	37.0	3.0	-4.0
147.5	48.7	-7.0	8.6	N 36° 38' 47.6"	W 101° 24' 20.1"	118.5	134.3	6.7	99.0	37.1	2.9	-4.0
148.5	47.6	-7.0	8.5	N 36° 38' 48.2"	W 101° 24' 27.7"	118.6	134.3	6.7	98.8	37.1	2.9	-4.1
149.5	46.8	-7.0	8.4	N 36° 38' 48.3"	W 101° 24' 34.7"	118.6	134.3	6.7	98.7	37.1	2.9	-4.1
150.5	46.1	-7.0	8.3	N 36° 38' 47.8"	W 101° 24' 41.2"	118.7	134.2	6.7	98.5	37.2	2.8	-4.2
151.5	46.4	-7.0	8.4	N 36° 38' 44.7"	W 101° 24' 45.7"	118.7	134.2	6.7	98.5	37.2	2.8	-4.2
152.5	46.0	-7.0	8.3	N 36° 38' 43.8"	W 101° 24' 51.8"	118.8	134.2	6.7	98.4	37.2	2.8	-4.2
153.5	44.8	-7.0	8.2	N 36° 38' 45.6"	W 101° 24' 59.5"	118.8	134.1	6.7	98.2	37.3	2.7	-4.3

Proposed CH220 A 60 dBuV/m Protected Contour						New Application BNPED-20071018AZG CH220 40 dBuV/m Interference Contour						
Az (deg)	HAAT (m)	ERP (dBk)	Dist (km)	Latitude	Longitude	Az (deg)	HAAT (m)	ERP (dBk)	Dist (km)	F.S. (dBuV/ m)	Margin (dB)	Allowed ERP (dBkW)
154.5	43.9	-7.0	8.1	N 36° 38' 46.5"	W 101° 25' 06.4"	118.9	134.1	6.7	98.0	37.3	2.7	-4.3
155.5	44.0	-7.0	8.1	N 36° 38' 44.1"	W 101° 25' 11.3"	118.9	134.1	6.7	97.9	37.3	2.7	-4.3
156.5	42.8	-7.0	8.0	N 36° 38' 45.7"	W 101° 25' 18.4"	119.0	134.1	6.7	97.8	37.4	2.6	-4.4
157.5	42.2	-7.0	7.9	N 36° 38' 45.8"	W 101° 25' 24.5"	119.0	134.0	6.7	97.6	37.4	2.6	-4.4
158.5	41.9	-7.0	7.9	N 36° 38' 44.7"	W 101° 25' 30.0"	119.1	134.0	6.7	97.5	37.5	2.5	-4.4
159.5	41.8	-7.0	7.9	N 36° 38' 43.6"	W 101° 25' 35.4"	119.1	134.0	6.7	97.4	37.5	2.5	-4.5
160.5	41.1	-7.0	7.8	N 36° 38' 44.0"	W 101° 25' 41.5"	119.2	134.0	6.7	97.3	37.5	2.5	-4.5
161.5	40.9	-7.0	7.8	N 36° 38' 43.2"	W 101° 25' 47.0"	119.2	134.0	6.7	97.2	37.6	2.4	-4.5
162.5	41.4	-7.0	7.9	N 36° 38' 40.4"	W 101° 25' 51.7"	119.3	133.9	6.7	97.1	37.6	2.4	-4.6
163.5	41.2	-7.0	7.8	N 36° 38' 39.7"	W 101° 25' 57.2"	119.3	133.9	6.7	97.0	37.6	2.4	-4.6
164.5	41.7	-7.0	7.9	N 36° 38' 36.8"	W 101° 26' 01.9"	119.4	133.9	6.7	96.9	37.6	2.4	-4.6
165.5	41.8	-7.0	7.9	N 36° 38' 35.4"	W 101° 26' 07.2"	119.5	133.8	6.8	96.9	37.6	2.4	-4.6
166.5	42.5	-7.0	8.0	N 36° 38' 32.5"	W 101° 26' 12.0"	119.6	133.8	6.8	96.8	37.7	2.3	-4.7
167.5	43.4	-7.0	8.0	N 36° 38' 28.9"	W 101° 26' 16.8"	119.7	133.7	6.8	96.7	37.7	2.3	-4.7
168.5	44.2	-7.0	8.1	N 36° 38' 25.1"	W 101° 26' 21.6"	119.7	133.7	6.8	96.7	37.7	2.3	-4.7
169.5	43.6	-7.0	8.1	N 36° 38' 26.2"	W 101° 26' 27.7"	119.8	133.7	6.8	96.6	37.7	2.3	-4.7
170.5	41.5	-7.0	7.9	N 36° 38' 31.9"	W 101° 26' 34.6"	119.7	133.7	6.8	96.3	37.8	2.2	-4.8
171.5	40.6	-7.0	7.8	N 36° 38' 33.7"	W 101° 26' 40.5"	119.8	133.7	6.8	96.2	37.8	2.2	-4.8
172.5	40.0	-7.0	7.7	N 36° 38' 34.9"	W 101° 26' 46.3"	119.8	133.7	6.8	96.0	37.9	2.1	-4.9
173.5	40.1	-7.0	7.7	N 36° 38' 34.0"	W 101° 26' 51.6"	119.8	133.6	6.8	95.9	37.9	2.1	-4.9
174.5	40.5	-7.0	7.8	N 36° 38' 32.3"	W 101° 26' 56.9"	119.9	133.6	6.8	95.8	37.9	2.1	-4.9
175.5	40.7	-7.0	7.8	N 36° 38' 31.5"	W 101° 27' 02.3"	120.0	133.5	6.8	95.7	38.0	2.0	-4.9
176.5	39.8	-7.0	7.7	N 36° 38' 33.9"	W 101° 27' 08.0"	120.0	133.5	6.8	95.6	38.0	2.0	-5.0
177.5	37.5	-7.0	7.5	N 36° 38' 40.7"	W 101° 27' 13.8"	119.9	133.6	6.8	95.3	38.1	1.9	-5.0
178.5	35.8	-7.0	7.3	N 36° 38' 46.1"	W 101° 27' 19.3"	119.8	133.6	6.8	95.1	38.1	1.9	-5.1
179.5	35.8	-7.0	7.3	N 36° 38' 45.8"	W 101° 27' 24.4"	119.9	133.6	6.8	95.0	38.1	1.9	-5.1
180.5	35.8	-7.0	7.3	N 36° 38' 46.0"	W 101° 27' 29.6"	119.9	133.6	6.8	94.9	38.2	1.8	-5.2
181.5	34.9	-7.0	7.2	N 36° 38' 49.0"	W 101° 27' 34.6"	119.9	133.6	6.8	94.8	38.2	1.8	-5.2
182.5	34.5	-7.0	7.2	N 36° 38' 50.5"	W 101° 27' 39.6"	119.9	133.6	6.8	94.6	38.3	1.7	-5.2
183.5	34.4	-7.0	7.2	N 36° 38' 50.8"	W 101° 27' 44.7"	120.0	133.5	6.8	94.5	38.3	1.7	-5.3
184.5	34.0	-7.0	7.1	N 36° 38' 52.6"	W 101° 27' 49.6"	120.0	133.5	6.8	94.4	38.3	1.7	-5.3
185.5	33.4	-7.0	7.1	N 36° 38' 54.7"	W 101° 27' 54.4"	120.0	133.5	6.8	94.3	38.4	1.6	-5.3
186.5	33.1	-7.0	7.1	N 36° 38' 56.2"	W 101° 27' 59.2"	120.0	133.5	6.8	94.1	38.4	1.6	-5.4
187.5	32.8	-7.0	7.0	N 36° 38' 57.8"	W 101° 28' 03.9"	120.0	133.5	6.8	94.0	38.4	1.6	-5.4
188.5	32.9	-7.0	7.0	N 36° 38' 57.8"	W 101° 28' 08.9"	120.0	133.5	6.8	93.9	38.5	1.5	-5.4
189.5	33.6	-7.0	7.1	N 36° 38' 56.1"	W 101° 28' 14.3"	120.1	133.5	6.8	93.8	38.5	1.5	-5.5
190.5	34.0	-7.1	7.1	N 36° 38' 56.8"	W 101° 28' 19.2"	120.1	133.4	6.8	93.7	38.5	1.5	-5.6
191.5	33.5	-7.3	7.0	N 36° 39' 01.8"	W 101° 28' 23.1"	120.1	133.5	6.8	93.5	38.6	1.4	-5.8

Proposed CH220 A 60 dBuV/m Protected Contour						New Application BNPED-20071018AZG CH220 40 dBuV/m Interference Contour						
Az (deg)	HAAT (m)	ERP (dBk)	Dist (km)	Latitude	Longitude	Az (deg)	HAAT (m)	ERP (dBk)	Dist (km)	F.S. (dBuV/ m)	Margin (dB)	Allowed ERP (dBkW)
192.5	32.3	-7.5	6.8	N 36° 39' 09.1"	W 101° 28' 26.1"	120.0	133.5	6.8	93.3	38.6	1.4	-6.1
193.5	31.7	-7.6	6.6	N 36° 39' 14.2"	W 101° 28' 29.5"	119.9	133.6	6.8	93.2	38.6	1.4	-6.3
194.5	31.1	-7.8	6.5	N 36° 39' 19.9"	W 101° 28' 32.4"	119.9	133.6	6.8	93.0	38.7	1.3	-6.5
195.5	30.0	-8.0	6.4	N 36° 39' 24.7"	W 101° 28' 35.5"	119.8	133.6	6.8	92.9	38.7	1.3	-6.8
196.5	29.3	-8.3	6.3	N 36° 39' 27.8"	W 101° 28' 39.1"	119.8	133.7	6.8	92.8	38.8	1.2	-7.0
197.5	28.3	-8.5	6.2	N 36° 39' 31.0"	W 101° 28' 42.5"	119.8	133.7	6.8	92.7	38.8	1.2	-7.3
198.5	27.6	-8.7	6.1	N 36° 39' 34.3"	W 101° 28' 45.7"	119.7	133.7	6.8	92.5	38.8	1.2	-7.5
199.5	26.8	-8.9	6.1	N 36° 39' 37.6"	W 101° 28' 48.8"	119.7	133.7	6.8	92.4	38.9	1.1	-7.8
200.5	25.6	-9.1	6.0	N 36° 39' 40.9"	W 101° 28' 51.8"	119.7	133.7	6.8	92.3	38.9	1.1	-8.0
201.5	24.3	-9.3	5.9	N 36° 39' 44.1"	W 101° 28' 54.8"	119.6	133.7	6.8	92.2	38.9	1.1	-8.2
202.5	22.8	-9.5	5.9	N 36° 39' 47.4"	W 101° 28' 57.6"	119.6	133.8	6.8	92.1	38.9	1.1	-8.5
203.5	21.4	-9.7	5.8	N 36° 39' 50.8"	W 101° 29' 00.3"	119.6	133.8	6.8	92.0	39.0	1.0	-8.7
204.5	19.9	-10.0	5.7	N 36° 39' 54.2"	W 101° 29' 02.9"	119.5	133.8	6.8	91.9	39.0	1.0	-9.0
205.5	18.1	-10.2	5.7	N 36° 39' 57.7"	W 101° 29' 05.3"	119.5	133.8	6.8	91.8	39.0	1.0	-9.2
206.5	16.4	-10.4	5.6	N 36° 40' 01.3"	W 101° 29' 07.5"	119.4	133.9	6.7	91.7	39.1	0.9	-9.5
207.5	14.9	-10.6	5.5	N 36° 40' 04.9"	W 101° 29' 09.6"	119.4	133.9	6.7	91.6	39.1	0.9	-9.7
208.5	14.0	-10.9	5.4	N 36° 40' 08.6"	W 101° 29' 11.5"	119.3	133.9	6.7	91.5	39.1	0.9	-10.0
209.5	13.4	-11.1	5.3	N 36° 40' 12.4"	W 101° 29' 13.2"	119.3	133.9	6.7	91.4	39.1	0.9	-10.3
210.5	13.1	-11.6	5.2	N 36° 40' 18.6"	W 101° 29' 13.1"	119.2	134.0	6.7	91.3	39.2	0.8	-10.8
211.5	12.8	-12.5	4.9	N 36° 40' 27.5"	W 101° 29' 10.5"	119.0	134.0	6.7	91.2	39.2	0.8	-11.6
212.5	12.6	-13.4	4.7	N 36° 40' 35.4"	W 101° 29' 08.4"	118.9	134.1	6.7	91.1	39.2	0.8	-12.6
213.5	12.4	-14.4	4.4	N 36° 40' 43.1"	W 101° 29' 05.9"	118.7	134.2	6.7	91.1	39.2	0.8	-13.6
214.5	12.3	-15.1	4.3	N 36° 40' 49.1"	W 101° 29' 04.6"	118.6	134.3	6.7	91.0	39.2	0.8	-14.3
215.5	12.4	-15.5	4.2	N 36° 40' 52.7"	W 101° 29' 05.1"	118.6	134.3	6.7	90.9	39.2	0.8	-14.7
216.5	12.8	-15.9	4.1	N 36° 40' 56.5"	W 101° 29' 05.3"	118.5	134.3	6.7	90.9	39.2	0.8	-15.2
217.5	13.3	-16.3	4.0	N 36° 41' 00.3"	W 101° 29' 05.2"	118.4	134.4	6.7	90.8	39.3	0.7	-15.6
218.5	14.1	-16.8	3.9	N 36° 41' 04.2"	W 101° 29' 04.9"	118.4	134.4	6.7	90.8	39.3	0.7	-16.0
219.5	14.4	-17.2	3.8	N 36° 41' 08.3"	W 101° 29' 04.4"	118.3	134.5	6.7	90.7	39.3	0.7	-16.5
220.5	14.4	-17.4	3.7	N 36° 41' 11.0"	W 101° 29' 05.0"	118.2	134.5	6.7	90.7	39.3	0.7	-16.7
221.5	14.6	-17.4	3.7	N 36° 41' 12.4"	W 101° 29' 07.0"	118.2	134.5	6.7	90.6	39.3	0.7	-16.8
222.5	14.7	-17.4	3.7	N 36° 41' 13.8"	W 101° 29' 08.9"	118.2	134.5	6.7	90.5	39.3	0.7	-16.8
223.5	14.9	-17.4	3.7	N 36° 41' 15.2"	W 101° 29' 10.9"	118.2	134.6	6.7	90.5	39.4	0.6	-16.8
224.5	15.3	-17.4	3.7	N 36° 41' 16.7"	W 101° 29' 12.8"	118.2	134.6	6.7	90.4	39.4	0.6	-16.8
225.5	15.6	-17.4	3.7	N 36° 41' 18.2"	W 101° 29' 14.6"	118.2	134.6	6.7	90.3	39.4	0.6	-16.8
226.5	16.2	-17.4	3.7	N 36° 41' 19.7"	W 101° 29' 16.4"	118.2	134.6	6.7	90.3	39.4	0.6	-16.9
227.5	16.9	-17.4	3.7	N 36° 41' 21.2"	W 101° 29' 18.2"	118.2	134.6	6.7	90.2	39.4	0.6	-16.9
228.5	17.4	-17.4	3.7	N 36° 41' 22.8"	W 101° 29' 20.0"	118.2	134.6	6.7	90.2	39.4	0.6	-16.9
229.5	17.8	-17.4	3.7	N 36° 41' 24.4"	W 101° 29' 21.7"	118.1	134.6	6.7	90.1	39.5	0.5	-16.9

Proposed CH220 A 60 dBuV/m Protected Contour						New Application BNPED-20071018AZG CH220 40 dBuV/m Interference Contour						
Az (deg)	HAAT (m)	ERP (dBk)	Dist (km)	Latitude	Longitude	Az (deg)	HAAT (m)	ERP (dBk)	Dist (km)	F.S. (dBuV/ m)	Margin (dB)	Allowed ERP (dBkW)
230.5	18.3	-17.5	3.7	N 36° 41' 26.1"	W 101° 29' 23.2"	118.1	134.6	6.7	90.0	39.5	0.5	-16.9
231.5	18.7	-17.5	3.7	N 36° 41' 28.0"	W 101° 29' 24.5"	118.1	134.6	6.7	90.0	39.5	0.5	-17.0
232.5	17.6	-17.6	3.7	N 36° 41' 29.9"	W 101° 29' 25.8"	118.1	134.7	6.7	89.9	39.5	0.5	-17.1
233.5	15.6	-17.6	3.7	N 36° 41' 31.8"	W 101° 29' 27.0"	118.0	134.7	6.7	89.9	39.5	0.5	-17.1
234.5	14.5	-17.7	3.7	N 36° 41' 33.7"	W 101° 29' 28.1"	118.0	134.7	6.7	89.8	39.5	0.5	-17.2
235.5	13.6	-17.7	3.7	N 36° 41' 35.6"	W 101° 29' 29.2"	118.0	134.7	6.7	89.8	39.6	0.4	-17.3
236.5	12.9	-17.8	3.7	N 36° 41' 37.5"	W 101° 29' 30.3"	118.0	134.7	6.7	89.7	39.6	0.4	-17.3
237.5	12.3	-17.8	3.6	N 36° 41' 39.5"	W 101° 29' 31.3"	117.9	134.8	6.7	89.7	39.6	0.4	-17.4
238.5	11.9	-17.9	3.6	N 36° 41' 41.4"	W 101° 29' 32.3"	117.9	134.8	6.7	89.6	39.6	0.4	-17.5
239.5	12.0	-17.9	3.6	N 36° 41' 43.4"	W 101° 29' 33.2"	117.9	134.8	6.7	89.6	39.6	0.4	-17.5
240.5	12.2	-18.0	3.6	N 36° 41' 45.3"	W 101° 29' 34.2"	117.9	134.8	6.7	89.5	39.6	0.4	-17.6
241.5	12.3	-18.0	3.6	N 36° 41' 47.0"	W 101° 29' 35.5"	117.8	134.8	6.7	89.5	39.6	0.4	-17.6
242.5	12.4	-18.0	3.6	N 36° 41' 48.9"	W 101° 29' 36.7"	117.8	134.9	6.7	89.4	39.6	0.4	-17.6
243.5	12.6	-18.0	3.6	N 36° 41' 50.7"	W 101° 29' 37.8"	117.8	134.9	6.7	89.4	39.7	0.3	-17.6
244.5	12.8	-18.0	3.6	N 36° 41' 52.5"	W 101° 29' 39.0"	117.8	134.9	6.7	89.3	39.7	0.3	-17.6
245.5	13.4	-18.0	3.6	N 36° 41' 54.4"	W 101° 29' 40.0"	117.8	134.9	6.7	89.3	39.7	0.3	-17.6
246.5	15.3	-18.0	3.6	N 36° 41' 56.2"	W 101° 29' 41.1"	117.7	135.0	6.7	89.2	39.7	0.3	-17.7
247.5	17.8	-18.0	3.6	N 36° 41' 58.1"	W 101° 29' 42.1"	117.7	135.0	6.7	89.2	39.7	0.3	-17.7
248.5	19.9	-18.0	3.6	N 36° 42' 00.0"	W 101° 29' 43.0"	117.7	135.0	6.7	89.1	39.7	0.3	-17.7
249.5	20.5	-18.0	3.6	N 36° 42' 01.9"	W 101° 29' 43.9"	117.7	135.1	6.7	89.1	39.7	0.3	-17.7
250.5	20.9	-18.0	3.6	N 36° 42' 04.0"	W 101° 29' 44.4"	117.6	135.1	6.7	89.0	39.8	0.2	-17.8
251.5	22.4	-18.1	3.6	N 36° 42' 06.1"	W 101° 29' 44.5"	117.6	135.1	6.7	89.0	39.8	0.2	-17.9
252.5	24.5	-18.2	3.6	N 36° 42' 08.2"	W 101° 29' 44.5"	117.5	135.2	6.6	89.0	39.8	0.2	-17.9
253.5	26.2	-18.3	3.5	N 36° 42' 10.3"	W 101° 29' 44.5"	117.5	135.2	6.6	88.9	39.8	0.2	-18.0
254.5	27.3	-18.3	3.5	N 36° 42' 12.4"	W 101° 29' 44.3"	117.5	135.3	6.6	88.9	39.8	0.2	-18.1
255.5	28.5	-18.4	3.5	N 36° 42' 14.5"	W 101° 29' 44.2"	117.4	135.3	6.6	88.9	39.8	0.2	-18.2
256.5	29.7	-18.5	3.5	N 36° 42' 16.6"	W 101° 29' 44.0"	117.4	135.4	6.6	88.8	39.8	0.2	-18.3
257.5	30.8	-18.6	3.5	N 36° 42' 18.6"	W 101° 29' 44.3"	117.4	135.4	6.6	88.8	39.8	0.2	-18.4
258.5	32.4	-18.7	3.6	N 36° 42' 20.0"	W 101° 29' 47.8"	117.4	135.4	6.6	88.7	39.8	0.2	-18.6
259.5	34.7	-18.8	3.7	N 36° 42' 21.3"	W 101° 29' 52.9"	117.4	135.4	6.6	88.6	39.9	0.1	-18.7
260.5	36.6	-19.1	3.7	N 36° 42' 23.1"	W 101° 29' 55.1"	117.4	135.4	6.6	88.5	39.9	0.1	-19.0
261.5	38.3	-19.6	3.7	N 36° 42' 25.3"	W 101° 29' 54.9"	117.3	135.4	6.6	88.5	39.9	0.1	-19.5
262.5	39.9	-20.1	3.7	N 36° 42' 27.5"	W 101° 29' 54.0"	117.3	135.5	6.6	88.5	39.9	0.1	-20.0
263.5	42.2	-20.7	3.7	N 36° 42' 29.5"	W 101° 29' 54.0"	117.2	135.5	6.6	88.4	39.9	0.1	-20.6
264.5	44.8	-21.2	3.7	N 36° 42' 31.6"	W 101° 29' 54.1"	117.2	135.6	6.6	88.4	39.9	0.1	-21.2
265.5	47.2	-21.6	3.7	N 36° 42' 33.6"	W 101° 29' 56.3"	117.2	135.6	6.6	88.3	40.0	0.0	-21.5
266.5	48.8	-21.6	3.8	N 36° 42' 35.5"	W 101° 29' 59.4"	117.2	135.6	6.6	88.2	40.0	0.0	-21.5
267.5	49.7	-21.6	3.8	N 36° 42' 37.6"	W 101° 30' 01.0"	117.1	135.7	6.6	88.2	40.0	0.0	-21.6

Proposed CH220 A 60 dBuV/m Protected Contour						New Application BNPED-20071018AZG CH220 40 dBuV/m Interference Contour						
Az (deg)	HAAT (m)	ERP (dBk)	Dist (km)	Latitude	Longitude	Az (deg)	HAAT (m)	ERP (dBk)	Dist (km)	F.S. (dBuV/ m)	Margin (dB)	Allowed ERP (dBkW)
268.5	50.8	-21.6	3.9	N 36° 42' 39.7"	W 101° 30' 03.1"	117.1	135.7	6.6	88.1	40.0	0.0	-21.6
269.5	50.6	-21.6	3.9	N 36° 42' 41.9"	W 101° 30' 02.8"	117.1	135.7	6.6	88.1	40.0	0.0	-21.6
270.5	48.9	-21.6	3.8	N 36° 42' 44.0"	W 101° 29' 59.9"	117.0	135.8	6.6	88.1	40.0	0.0	-21.6
271.5	46.5	-21.6	3.7	N 36° 42' 46.1"	W 101° 29' 55.3"	117.0	135.9	6.6	88.2	40.0	0.0	-21.6
272.5	44.7	-21.6	3.6	N 36° 42' 48.0"	W 101° 29' 51.7"	116.9	136.0	6.6	88.2	40.0	0.0	-21.5
273.5	44.1	-21.6	3.6	N 36° 42' 50.0"	W 101° 29' 50.3"	116.8	136.0	6.6	88.2	40.0	0.0	-21.5
274.5	43.7	-21.6	3.5	N 36° 42' 51.9"	W 101° 29' 49.3"	116.8	136.1	6.6	88.2	40.0	0.0	-21.5
275.5	42.4	-21.6	3.5	N 36° 42' 53.7"	W 101° 29' 46.4"	116.8	136.1	6.6	88.3	40.0	0.0	-21.5
276.5	40.5	-21.6	3.4	N 36° 42' 55.3"	W 101° 29' 42.1"	116.7	136.2	6.6	88.3	40.0	0.0	-21.5
277.5	38.1	-21.6	3.2	N 36° 42' 56.7"	W 101° 29' 36.6"	116.6	136.2	6.6	88.4	39.9	0.1	-21.5
278.5	36.0	-21.6	3.2	N 36° 42' 58.1"	W 101° 29' 33.3"	116.6	136.3	6.6	88.5	39.9	0.1	-21.5
279.5	34.0	-21.6	3.1	N 36° 42' 59.5"	W 101° 29' 30.3"	116.5	136.3	6.6	88.5	39.9	0.1	-21.4
280.5	32.2	-21.5	3.0	N 36° 43' 01.0"	W 101° 29' 28.0"	116.5	136.4	6.6	88.6	39.9	0.1	-21.3
281.5	30.4	-21.3	3.0	N 36° 43' 02.4"	W 101° 29' 26.1"	116.4	136.4	6.6	88.6	39.9	0.1	-21.2
282.5	29.2	-21.1	3.0	N 36° 43' 04.2"	W 101° 29' 26.5"	116.4	136.4	6.6	88.6	39.9	0.1	-21.0
283.5	28.0	-21.0	3.1	N 36° 43' 06.1"	W 101° 29' 26.9"	116.4	136.5	6.6	88.5	39.9	0.1	-20.9
284.5	26.3	-20.8	3.1	N 36° 43' 07.9"	W 101° 29' 27.2"	116.4	136.5	6.6	88.5	39.9	0.1	-20.7
285.5	24.7	-20.7	3.1	N 36° 43' 09.7"	W 101° 29' 27.4"	116.3	136.5	6.6	88.5	39.9	0.1	-20.6
286.5	23.9	-20.5	3.1	N 36° 43' 11.6"	W 101° 29' 27.6"	116.3	136.6	6.6	88.4	39.9	0.1	-20.4
287.5	22.9	-20.4	3.1	N 36° 43' 13.5"	W 101° 29' 27.7"	116.3	136.6	6.6	88.4	39.9	0.1	-20.3
288.5	22.4	-20.2	3.2	N 36° 43' 15.4"	W 101° 29' 27.8"	116.2	136.6	6.6	88.4	39.9	0.1	-20.1
289.5	22.2	-20.1	3.2	N 36° 43' 17.3"	W 101° 29' 27.8"	116.2	136.6	6.6	88.3	39.9	0.1	-20.0
290.5	22.7	-20.0	3.2	N 36° 43' 19.1"	W 101° 29' 27.4"	116.2	136.7	6.6	88.3	39.9	0.1	-19.9
291.5	23.5	-20.0	3.2	N 36° 43' 20.7"	W 101° 29' 26.6"	116.1	136.7	6.6	88.3	39.9	0.1	-19.9
292.5	24.4	-20.0	3.2	N 36° 43' 22.4"	W 101° 29' 25.7"	116.1	136.7	6.6	88.3	39.9	0.1	-19.9
293.5	25.0	-20.0	3.2	N 36° 43' 24.1"	W 101° 29' 24.9"	116.1	136.7	6.6	88.3	39.9	0.1	-19.9
294.5	25.4	-20.0	3.2	N 36° 43' 25.7"	W 101° 29' 24.0"	116.0	136.7	6.6	88.3	39.9	0.1	-19.9
295.5	25.3	-20.0	3.2	N 36° 43' 27.3"	W 101° 29' 23.0"	116.0	136.8	6.6	88.3	39.9	0.1	-19.9
296.5	24.6	-20.0	3.2	N 36° 43' 28.9"	W 101° 29' 22.0"	115.9	136.8	6.6	88.3	39.9	0.1	-19.9
297.5	23.9	-20.0	3.2	N 36° 43' 30.5"	W 101° 29' 21.0"	115.9	136.8	6.6	88.3	39.9	0.1	-19.9
298.5	23.0	-20.0	3.2	N 36° 43' 32.1"	W 101° 29' 20.0"	115.9	136.8	6.6	88.3	39.9	0.1	-19.9
299.5	22.0	-20.0	3.2	N 36° 43' 33.7"	W 101° 29' 18.9"	115.8	136.8	6.6	88.3	39.9	0.1	-19.9
300.5	21.3	-20.0	3.2	N 36° 43' 35.3"	W 101° 29' 17.7"	115.8	136.8	6.6	88.3	39.9	0.1	-19.9
301.5	21.0	-20.0	3.2	N 36° 43' 36.8"	W 101° 29' 16.6"	115.8	136.8	6.6	88.3	39.9	0.1	-19.9
302.5	21.9	-20.0	3.2	N 36° 43' 38.3"	W 101° 29' 15.4"	115.7	136.8	6.6	88.3	39.9	0.1	-19.9
303.5	23.9	-20.0	3.2	N 36° 43' 39.8"	W 101° 29' 14.2"	115.7	136.8	6.5	88.3	39.9	0.1	-19.9
304.5	25.7	-20.0	3.2	N 36° 43' 41.3"	W 101° 29' 12.9"	115.7	136.8	6.5	88.3	39.9	0.1	-19.9
305.5	28.2	-20.0	3.2	N 36° 43' 42.8"	W 101° 29' 11.6"	115.6	136.8	6.5	88.4	39.9	0.1	-19.9

Proposed CH220 A 60 dBuV/m Protected Contour						New Application BNPED-20071018AZG CH220 40 dBuV/m Interference Contour						
Az (deg)	HAAT (m)	ERP (dBk)	Dist (km)	Latitude	Longitude	Az (deg)	HAAT (m)	ERP (dBk)	Dist (km)	F.S. (dBuV/ m)	Margin (dB)	Allowed ERP (dBkW)
306.5	30.4	-20.0	3.2	N 36° 43' 44.3"	W 101° 29' 10.3"	115.6	136.8	6.5	88.4	39.9	0.1	-19.9
307.5	32.1	-20.0	3.2	N 36° 43' 47.0"	W 101° 29' 11.2"	115.5	136.8	6.5	88.3	39.9	0.1	-19.9
308.5	33.2	-20.0	3.3	N 36° 43' 49.8"	W 101° 29' 11.8"	115.5	136.8	6.5	88.3	39.9	0.1	-19.9
309.5	34.0	-20.0	3.4	N 36° 43' 52.2"	W 101° 29' 11.8"	115.5	136.8	6.5	88.2	39.9	0.1	-19.9
310.5	34.1	-19.9	3.4	N 36° 43' 54.3"	W 101° 29' 11.2"	115.4	136.8	6.5	88.2	39.9	0.1	-19.8
311.5	32.7	-19.6	3.4	N 36° 43' 55.2"	W 101° 29' 08.8"	115.4	136.8	6.5	88.3	39.9	0.1	-19.6
312.5	30.1	-19.4	3.3	N 36° 43' 54.7"	W 101° 29' 04.7"	115.4	136.8	6.5	88.4	39.9	0.1	-19.3
313.5	28.9	-19.2	3.3	N 36° 43' 57.2"	W 101° 29' 04.6"	115.3	136.8	6.5	88.3	39.9	0.1	-19.1
314.5	28.1	-19.0	3.4	N 36° 43' 59.6"	W 101° 29' 04.3"	115.3	136.7	6.5	88.3	39.9	0.1	-18.9
315.5	28.1	-18.8	3.4	N 36° 44' 02.0"	W 101° 29' 03.9"	115.2	136.7	6.5	88.3	39.9	0.1	-18.7
316.5	28.2	-18.6	3.5	N 36° 44' 04.5"	W 101° 29' 03.5"	115.2	136.7	6.5	88.2	39.9	0.1	-18.5
317.5	28.0	-18.4	3.5	N 36° 44' 06.9"	W 101° 29' 02.9"	115.1	136.6	6.5	88.2	39.9	0.1	-18.3
318.5	28.2	-18.2	3.6	N 36° 44' 09.2"	W 101° 29' 02.2"	115.1	136.6	6.5	88.2	39.9	0.1	-18.1
319.5	29.0	-18.0	3.6	N 36° 44' 11.6"	W 101° 29' 01.4"	115.0	136.6	6.5	88.2	39.9	0.1	-18.0
320.5	30.5	-17.8	3.7	N 36° 44' 14.2"	W 101° 29' 00.9"	115.0	136.5	6.5	88.2	39.9	0.1	-17.7
321.5	32.6	-17.6	3.8	N 36° 44' 20.2"	W 101° 29' 03.5"	114.9	136.4	6.5	88.0	39.9	0.1	-17.5
322.5	34.0	-17.3	4.0	N 36° 44' 25.1"	W 101° 29' 04.8"	114.8	136.3	6.5	87.9	40.0	0.0	-17.3
323.5	34.4	-17.1	4.0	N 36° 44' 28.3"	W 101° 29' 04.3"	114.7	136.3	6.5	87.9	40.0	0.0	-17.1
324.5	33.5	-16.9	4.1	N 36° 44' 29.8"	W 101° 29' 02.1"	114.7	136.2	6.5	87.9	40.0	0.0	-16.8
325.5	32.0	-16.6	4.0	N 36° 44' 30.0"	W 101° 28' 58.8"	114.7	136.2	6.5	88.0	39.9	0.1	-16.6
326.5	30.2	-16.4	4.0	N 36° 44' 30.2"	W 101° 28' 55.6"	114.7	136.2	6.5	88.1	39.9	0.1	-16.3
327.5	28.6	-16.2	4.0	N 36° 44' 32.8"	W 101° 28' 54.3"	114.6	136.1	6.5	88.1	39.9	0.1	-16.1
328.5	26.9	-16.0	4.1	N 36° 44' 35.3"	W 101° 28' 52.9"	114.5	136.0	6.5	88.1	39.9	0.1	-15.9
329.5	25.2	-15.8	4.1	N 36° 44' 37.8"	W 101° 28' 51.4"	114.5	135.9	6.5	88.1	39.9	0.1	-15.7
330.5	23.8	-15.4	4.2	N 36° 44' 41.6"	W 101° 28' 50.8"	114.4	135.8	6.5	88.0	39.9	0.1	-15.3
331.5	22.6	-14.8	4.3	N 36° 44' 46.5"	W 101° 28' 50.7"	114.3	135.7	6.5	88.0	39.9	0.1	-14.7
332.5	21.8	-14.3	4.5	N 36° 44' 51.3"	W 101° 28' 50.3"	114.2	135.5	6.5	87.9	39.9	0.1	-14.2
333.5	21.2	-13.8	4.6	N 36° 44' 55.8"	W 101° 28' 49.6"	114.1	135.4	6.5	87.9	39.9	0.1	-13.7
334.5	20.3	-13.3	4.7	N 36° 45' 00.2"	W 101° 28' 48.7"	114.1	135.2	6.5	87.9	39.9	0.1	-13.2
335.5	19.3	-12.8	4.8	N 36° 45' 04.4"	W 101° 28' 47.4"	114.0	135.0	6.5	87.8	39.9	0.1	-12.7
336.5	18.1	-12.4	4.9	N 36° 45' 09.3"	W 101° 28' 46.4"	113.9	134.9	6.5	87.8	39.9	0.1	-12.3
337.5	17.4	-12.0	5.1	N 36° 45' 14.5"	W 101° 28' 45.3"	113.8	134.7	6.4	87.7	39.9	0.1	-11.9
338.5	16.9	-11.6	5.2	N 36° 45' 19.4"	W 101° 28' 43.9"	113.7	134.5	6.4	87.7	39.9	0.1	-11.5
339.5	16.6	-11.2	5.3	N 36° 45' 24.2"	W 101° 28' 42.3"	113.6	134.3	6.4	87.7	39.9	0.1	-11.1
340.5	16.4	-10.9	5.4	N 36° 45' 28.2"	W 101° 28' 40.0"	113.5	134.1	6.4	87.7	39.9	0.1	-10.8
341.5	16.4	-10.7	5.5	N 36° 45' 31.4"	W 101° 28' 37.3"	113.4	134.0	6.4	87.7	39.9	0.1	-10.6
342.5	16.5	-10.5	5.6	N 36° 45' 34.6"	W 101° 28' 34.5"	113.3	133.9	6.4	87.7	39.8	0.2	-10.3
343.5	16.7	-10.3	5.6	N 36° 45' 37.6"	W 101° 28' 31.6"	113.3	133.7	6.4	87.8	39.8	0.2	-10.1

Proposed CH220 A 60 dBuV/m Protected Contour						New Application BNPED-20071018AZG CH220 40 dBuV/m Interference Contour						
Az (deg)	HAAT (m)	ERP (dBk)	Dist (km)	Latitude	Longitude	Az (deg)	HAAT (m)	ERP (dBk)	Dist (km)	F.S. (dBuV/ m)	Margin (dB)	Allowed ERP (dBkW)
344.5	16.9	-10.1	5.7	N 36° 45' 40.6"	W 101° 28' 28.5"	113.2	133.6	6.4	87.8	39.8	0.2	-9.9
345.5	17.1	-9.9	5.8	N 36° 45' 43.5"	W 101° 28' 25.3"	113.1	133.4	6.4	87.8	39.8	0.2	-9.7
346.5	17.4	-9.7	5.8	N 36° 45' 46.3"	W 101° 28' 21.9"	113.0	133.3	6.4	87.9	39.8	0.2	-9.4
347.5	17.7	-9.5	5.9	N 36° 45' 49.0"	W 101° 28' 18.5"	113.0	133.2	6.4	87.9	39.7	0.3	-9.2
348.5	18.1	-9.3	5.9	N 36° 45' 51.6"	W 101° 28' 14.9"	112.9	133.0	6.4	88.0	39.7	0.3	-9.0
349.5	18.4	-9.1	6.0	N 36° 45' 54.2"	W 101° 28' 11.2"	112.8	132.9	6.4	88.0	39.7	0.3	-8.8
350.5	18.6	-8.9	6.1	N 36° 45' 56.9"	W 101° 28' 07.5"	112.7	132.8	6.4	88.1	39.7	0.3	-8.6
351.5	18.9	-8.7	6.1	N 36° 45' 59.8"	W 101° 28' 03.7"	112.7	132.6	6.4	88.1	39.6	0.4	-8.3
352.5	19.2	-8.5	6.2	N 36° 46' 02.6"	W 101° 27' 59.8"	112.6	132.5	6.4	88.2	39.6	0.4	-8.1
353.5	19.4	-8.3	6.3	N 36° 46' 05.3"	W 101° 27' 55.8"	112.5	132.3	6.4	88.2	39.6	0.4	-7.8
354.5	19.9	-8.1	6.4	N 36° 46' 07.8"	W 101° 27' 51.6"	112.4	132.2	6.4	88.3	39.6	0.4	-7.6
355.5	20.4	-7.8	6.4	N 36° 46' 10.3"	W 101° 27' 47.4"	112.4	132.1	6.4	88.4	39.5	0.5	-7.4
356.5	21.1	-7.6	6.5	N 36° 46' 13.1"	W 101° 27' 43.1"	112.3	131.9	6.4	88.4	39.5	0.5	-7.2
357.5	21.8	-7.5	6.6	N 36° 46' 16.0"	W 101° 27' 38.6"	112.2	131.8	6.4	88.5	39.5	0.5	-6.9
358.5	22.5	-7.3	6.7	N 36° 46' 18.7"	W 101° 27' 34.1"	112.1	131.6	6.4	88.6	39.4	0.6	-6.7
359.5	22.9	-7.1	6.7	N 36° 46' 21.3"	W 101° 27' 29.4"	112.1	131.5	6.4	88.7	39.4	0.6	-6.5

Guymon, OK - Proposed - Campo, CO Proposed

Prepared by

BIA
fn



New-Application
40 dBuV/m (50,10)

New-Application
60 dBuV/m (50,50)

NEW-Application Site
BNPED-20071018AZG

Proposed
Ch. 220 A
54 dBuV/m
(50,10)

Proposed
FM Site

Proposed Ch. 220 A
60 dBuV/m (50,50)

+ Proposed FM 220A Transmitter Site:
N 36-42-43 W 101-27-27
AMSL = 976 Meters ERP = 0.2 kW

+ NEW(FM) 220A Application
Transmitter Site:
N 37-04-30 W 102-22-45
AMSL = 1,285 Meters ERP = 12 kW

Scale = 1:550,000 January 2, 2008

