

SELLMEYER ENGINEERING
BROADCAST & COMMUNICATION CONSULTING ENGINEERS
P. O. Box 356 McKinney, Texas 75070
MEMBER AFCCE

EXHIBIT E-1

**ENGINEERING STATEMENT IN SUPPORT OF
AMENDMENT TO
APPLICATION FOR CONSTRUCTION PERMIT
AND ONE STEP UPGRADE
RANDALL C. WRIGHT
CHANNEL 270C2, 42.7 KW-ERP, 161 MTRS AAT
ELDON, MISSOURI
FILE NUMBER: BNPH-20060214ACR
FACILITY NUMBER: 168951
FM AUCTION 62/MM-FM-402A**

REQUESTS PROCESSING UNDER SECTION 73.215

APRIL, 2006

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ENGINEERING STATEMENT IN SUPPORT OF
APPLICATION FOR CONSTRUCTION PERMIT
RANDALL C. WRIGHT
CHANNEL 270C2, 42.7 KW-ERP, 161 METERS AAT
ELDON, MISSOURI
ONE STEP UPGRADE

ENGINEERING STATEMENT

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 - EXHIBIT E1-2 FM Spacing Study at Fully Spaced Allocation Site
 - EXHIBIT E1-3 Vertical Sketch of Antenna System
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- Certification of Engineer

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**ENGINEERING STATEMENT IN SUPPORT OF
AMENDMENT TO
APPLICATION FOR CONSTRUCTION PERMIT
RANDALL C. WRIGHT
CHANNEL 270C2, 42.7 KW-ERP, 161 MTRS AAT
ELDON, MISSOURI
FACILITY NUMBER: 165951
APRIL, 2006
SECTION 73.215**

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This Firm has been retained by Randall C. Wright ("Wright") to prepare this amendment to the Engineering Statement in support of his application for construction permit. The instant application proposes to construct a new Class C2 FM Broadcast Station at Eldon, Missouri. Wright is the winner of Auction 62 MM-FM-402A, channel 270A at Eldon, Missouri. This application proposes a one step upgrade to channel 270C2 at the proposed location using an existing registered tower. This amendment takes into consideration the recent downgrading of Station KCKC, channel 271C, Kansas City, Missouri to class C0 and the application site and facilities for channel 271A at Cuba, Missouri, file number BNPH-20060309AAZ which is mutually short spaced under Section 73.215 of the Rules.

ALLOCATION CONSIDERATIONS

The proposed transmitter site meets the minimum spacings under Section 73.207 of the Rules with the exception of that toward the successful bidder for channel 271A at Cuba, Missouri as shown in the FM spacing study of Exhibit E1-1. The instant proposal requests processing under section 73.215 of the Rules with respect to file number BNPH-20060309AAZ. The facilities of the application for Cuba, Missouri channel 271A are fully protected from interference by the instant proposal.

It is noted that several apparent short spacings exist in Exhibit E1-1. The footnotes in the exhibit fully explain the apparent short spacings.

A fully spaced allocation site, meeting all of the spacing requirements of Section 73.207 appears herein as Exhibit E1-2.

PROPOSED TRANSMITTER SITE & ANTENNA SYSTEM

The proposed site is that of formerly licensed station KBMX. The tower is registered under ASR number 1007049. Since the tower is registered and has been previously used for this purpose, the normally furnished site map is not being furnished. Should the Staff determine that one is required, it will be promptly furnished.

The antenna system will employ a ten element side mounted directional antenna employing one half wavelength spacing. A vertical sketch of the proposed tower and antenna system is attached hereto as Exhibit E1-3.

PREDICTED SERVICE CONTOURS

The distances to contours were calculated by a computer program maintained by this Firm which accurately emulates the F(50,50) and F(50,10) curves contained in Section 73.333 of the Rules. The height above average terrain for the eight standard radials was calculated from a program which uses linear interpolation of the NGDC thirty second terrain database. All service and interfering contours were calculated using a five degree interval using average elevations derived from the same database

The center of radiation of the antenna was calculated from the tower height and antenna data determined from the elevation data listed on Exhibit E1-3, the vertical sketch of the proposed antenna system. The ground level and overall height above ground were taken from ASR # 1007049. Details of the tower shown in the vertical sketch of Exhibit E1-3 were furnished by the tower owner.

A tabulation of the distances to the proposed service contours appears herein as Exhibit E1-4. The proposed facility will satisfy all allocation requirements of Section 73.315 of the rules. It will illuminate the entire city limits of Eldon, Missouri with a signal strength in excess of 3.16 mV/m (70 dBu) as demonstrated by the map of Exhibit E1-5.

SERVICE & INTERFERING CONTOURS

The 60 dBu service contour for the proposed channel 270C2 facility at Eldon, Missouri was determined in accordance with the Rules using the F(50,50) contours assuming operation with 42.7 kilowatts ERP utilizing the directional antenna specified herein at 161 meters above terrain. The 54 dBu interfering contour was determined by use of the F(50,10) curves. The tabulations for these contours appear herein as Exhibits E1-6A and 6B respectively.

The 60 dBu service contour for the allotment on channel 271A at Cuba, Missouri was determined in accordance with the Rules using the F(50,50) using the facilities specified in BNPH-20060309AAZ. The 54 dBu interfering contour was determined by use of the F(50,10) curves. The tabulations for these contours appear herein as Exhibits E1-7A and 7B respectively.

A map showing the plotted service and interfering contours appears herein as Exhibit E1-8.

The plotted and tabulated directional antenna pattern for the instant proposal appears herein as Exhibit E1-9.

A copy of a portion of the Lake Ozark, Missouri USGS 7.5 minute topographic map showing the proposed full spaced allotment site appears herein as Exhibit E1-10.

OTHER NEARBY BROADCAST FACILITIES

There is one FM broadcast station, one FM translator station and one television station authorized within 10 kilometers of the proposed site. There are no AM broadcast stations within 3 kilometers of the proposed site. The FM broadcast and translator stations are more than six kilometers distant. The television station is a UHF permit on channel 49 located 1.8 kilometers from the proposed site. It is the judgment of the undersigned that the distances and frequencies involved make it very

unlikely that any receiver induced interference of significance will occur.

Should any such problems be reported, Wright will undertake the necessary remedies in accordance with the Rules of the Commission.

ANSI RADIATION COMPLIANCE

The proposed facility will operate with 42.7 kilowatts effective radiated power in each plane, using a ten element, one half wavelength spaced antenna, from a height above ground level of 140.5 meters. The power density at six feet above ground level is calculated to be 0.008 mW/cm², 0.8 percent of the allowable maximum for controlled exposure. This is 3.8 percent of the 200 uW/cm² limit for uncontrolled areas.

The power density was calculated using the maximum field toward the ground for the proposed antenna with the model of OST Bulletin 65 edition 97-01. It is evident that the proposed facility will be in compliance with Commission Guidelines. During maintenance periods when it is necessary for work to be performed within hazardous areas, the station will reduce power to the extent required or cease operation for the period necessary. The tower base and transmitter building will be fenced to limit access to authorized personnel. Sufficient warning signs will be posted in the area to warn casual visitors to the site of the potential for radiofrequency radiation exposure.

MAIN STUDIO LOCATION

The main studio will be located within the 70 dBu contour.

ENVIRONMENTAL MATTERS

The facility will be located on an existing tower with the transmitter located in an existing building suitable for the purpose. No new construction is required. Thus the facility is exempt from environmental processing under Section 1.1307 of the Rules.

Upon grant of this application, the applicant is prepared to promptly construct the facilities and place the station in operation.

SELLMEYER ENGINEERING
BROADCAST & COMMUNICATION CONSULTING ENGINEERS
P. O. Box 356 McKinney, Texas 75070
MEMBER AFCCE

EXHIBIT E1-1
FM SPACING STUDY AT PROPOSED SITE
RANDALL C. WRIGHT
CHANNEL 270C2
ELDON, MISSOURI
AUCTION 62/MM-FM-403A
FACILITY NUMBER: 165951

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FM Study for: NEW                      FCC Database Date: 4/14/2006      38-16-46
Location: ELDON, MO                    Channel Class: C2          92-35-06
    [*] by HAAT indicates calculated as missing in database.
Call    City, State                    Chan Class Freq kW Latitude Dist. Required
Status Proponent                      File Number HAAT Longitude Azm. Clear (km)
-----
>>>>>>> Study For Channel 270  101.9 mHz <<<<<<<<

NEW    ELDON, MO                      270 C2 101.9 42.7   38-16-46    0.0 190   73.215
APP    Fac. No. 165951      BNPH-20060214ACR 161   92-35-06    0.0 -190.0  SHORT

ALLOC  ELDON, MO                      270 C2 101.9          38-07-43    18.8 190
RSV    Fac. No. 165951      -              0       92-41-01    207.3 -171.2  SHORT
      Use of 73.215 for short spacing requires: 177   -158.2  SHORT

NEW    ELDON, MO                      270 A  101.9          38-16-49    0.1 166
APP    Fac. No. 165951      BSFH-20050812ATY  0       92-35-07    345.2 -165.9  SHORT1
      Use of 73.215 for short spacing requires: 143   -142.9  SHORT

ALLOC  ELDON, MO                      270 A  101.9          38-16-49    0.1 166
VAC    Fac. No. 36262      Docket-1985-260  0       92-35-07    345.2 -165.9  SHORT
      Use of 73.215 for short spacing requires: 143   -142.9  SHORT

NEW    ELDON, MO                      270 A  101.9          38-20-27    6.8 166
APP    Fac. No. 165308      BSFH-20050811ADF  0       92-35-33    354.5 -159.2  SHORT2
      Use of 73.215 for short spacing requires: 143   -136.2  SHORT

NEW    ELDON, MO                      270 A  101.9          38-24-45    19.7 166
APP    Fac. No. 165360      BSFH-20050812ASE  0       92-26-11    41.3 -146.3  SHORT3
      Use of 73.215 for short spacing requires: 143   -123.3  SHORT

NEW    CUBA, MO                      271 A  102.1          38-10-50    98.3 106
APP    Fac. No. 165359      BSFH-20050812ASD  0       91-28-11    96.1  -7.7  SHORT4
      Use of 73.215 for short spacing requires: 89     +9.3  CLOSE

NEW    CUBA, MO                      271 A  102.1 2.35   38-08-06   105.05 106   73.2155
APP    Fac. No. 165955      BNPH-20060309AAZ 158   91-23-59    98.4  -0.95  SHORT
      Use of 73.215 for short spacing requires: 89     +16.0  CLEAR

NEW    CUBA, MO                      271 A  102.1          38-03-54   106.25 106
APP    Fac. No. 165955      BSFH-20050812AUC  0       91-24-12   102.6  +0.25  CLOSE

ALLOC  CUBA, MO                      271 A  102.1          38-03-54   106.25 106
VAC    Fac. No. 36261      Docket-1984-231  0       91-24-12   102.6  +0.25  CLOSE

KPLA   COLUMBIA, MO                  268 C1 101.5 41.0   39-00-52    85.9  79   73.215
LIC    Fac. No. 12429      BLH-19980306KB  324   92-16-32    18.2  +6.9  CLOSE

ALLOCR  KANSAS CITY, MO              271 C  102.1          39-04-20   195.8 188
DEL    RM-KS184              0       94-35-45   297.3  +7.8  CLOSE

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1: Wright's initial reference site for Channel 270A, Eldon, Mo.
2: Unsuccessful auction participant for Channel 270A, Eldon, Mo.
3: Unsuccessful auction participant for Channel 270A, Eldon, Mo.
4: Unsuccessful auction participant for Channel 271A, Cuba, Mo.
5: Successful auction participant for channel 271A, Cuba, Mo.

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SUBJECT TO 73.215 OF THE RULES

SELLMEYER ENGINEERING
BROADCAST & COMMUNICATION CONSULTING ENGINEERS
P. O. Box 356 McKinney, Texas 75070
MEMBER AFCCE

EXHIBIT E1-2
FM SPACING STUDY AT PROPOSED ALLOCATION SITE
RANDALL C. WRIGHT
CHANNEL 270C2
ELDON, MISSOURI
AUCTION 62/MM-FM-403A
FACILITY NUMBER: 165951

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FM Study for: ALLOC          FCC Database Date: 4/14/2006    38-07-43
Location: ELDON, MO          Channel Class: C2             92-41-01
    [*] by HAAT indicates calculated as missing in database.
Call City, State             Chan Class Freq kW Latitude Dist. Required
Status Proponent             File Number HAAT Longitude Azm.   Clear (km)
-----
>>>>>>> Study For Channel 270 101.9 mHz <<<<<<<<

ALLOC ELDON, MO              270 C2 101.9          38-07-43    0.0 190
RSV Fac. No. 165951          -              0    92-41-01    0.0 -190.0  SHORT1

NEW ELDON, MO                270 C2 101.9 42.7    38-16-46    18.8 190  73.215
APP Fac. No. 165951    BNPB-20060214ACR 161    92-35-06    27.3 -171.2  SHORT2
    Use of 73.215 for short spacing requires: 177    -158.2  SHORT

NEW ELDON, MO                270 A 101.9          38-16-49    18.9 166
APP Fac. No. 165951    BSFH-20050812ATY  0    92-35-07    27.1 -147.1  SHORT4
    Use of 73.215 for short spacing requires: 143    -124.1  SHORT

ALLOC ELDON, MO              270 A 101.9          38-16-49    18.9 166
VAC Fac. No. 36262    Dockt-1985-260    0    92-35-07    27.1 -147.1  SHORT3
    Use of 73.215 for short spacing requires: 143    -124.1  SHORT

NEW ELDON, MO                270 A 101.9          38-20-27    24.9 166
APP Fac. No. 165308    BSFH-20050811ADF  0    92-35-33    18.7 -141.1  SHORT5
    Use of 73.215 for short spacing requires: 143    -118.1  SHORT

NEW ELDON, MO                270 A 101.9          38-24-45    38.2 166
APP Fac. No. 165360    BSFH-20050812ASE  0    92-26-11    34.4 -127.8  SHORT5
    Use of 73.215 for short spacing requires: 143    -104.8  SHORT

NEW CUBA, MO                  271 A 102.1          38-10-50   106.55 106
APP Fac. No. 165359    BSFH-20050812ASD  0    91-28-11    86.5  +0.55  CLOSE

KTXR SPRINGFIELD, MO        267 C 101.3 97.8    37-11-41   106.00 105
LIC Fac. No. 63339    BLH-20030124AEU 454    92-56-07   192.2  +1.00  CLOSE

KJPWFM WAYNESVILLE, MO    272 A 102.3 2.65    37-49-09    58.0  55  73.215
LIC Fac. No. 53876    BLH-19971128KC 150    92-09-06   126.1  +3.0  CLOSE

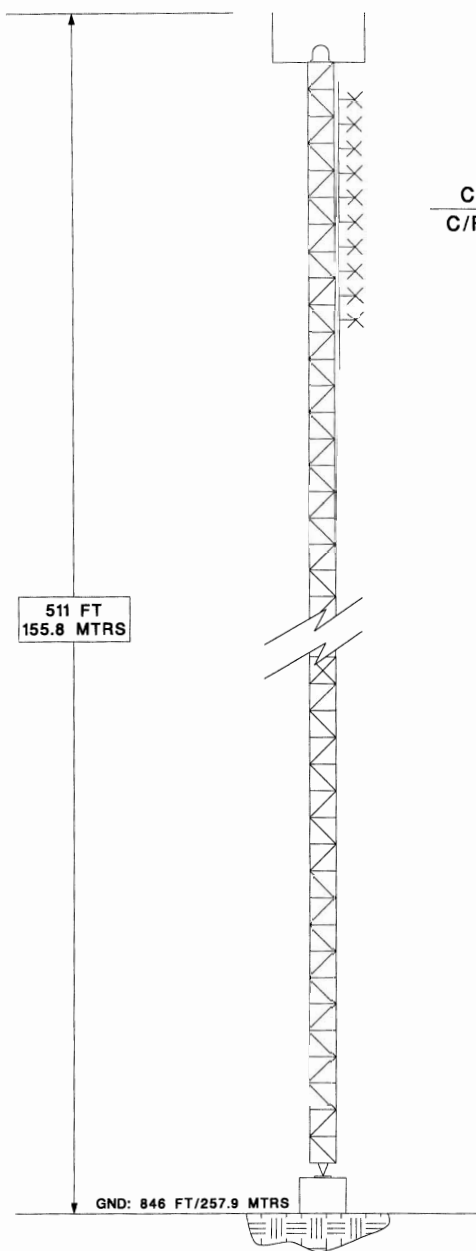
NEW CUBA, MO                  271 A 102.1          38-03-54   112.5 106
APP Fac. No. 165955    BSFH-20050812AUC  0    91-24-12    93.2  +6.5  CLOSE

ALLOC CUBA, MO                271 A 102.1          38-03-54   112.5 106
VAC Fac. No. 36261    Dockt-1984-231    0    91-24-12    93.2  +6.5  CLOSE

NEW CUBA, MO                  271 A 102.1 2.35    38-08-06   112.6 106  73.215
APP Fac. No. 165955    BNPB-20060309AAZ 158    91-23-59    89.2  +6.6  CLOSE

KQRA BROOKLINE, MO          271 A 102.1 4.9    37-12-39   112.6 106
LIC Fac. No. 79138    BLH-20020607AAT 110    93-13-42   205.4  +6.6  CLOSE

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C/R: 461 FT/140.5 MTRS AGL
C/R: 1307 FT/398.4 MTRS AMSL

FACILITY # 165951
ASR# 1007049

TOWER LOCATION:
N.L.: 38° 16' 46"
W.L.: 92° 35' 06"
NAD-27

N.L.: 38° 16' 46.0"
W.L.: 92° 35' 07.0"
NAD-83

AVERAGE TERRAIN: 237.2 M AMSL
HAAT: 161.2 MTRS

NOT TO SCALE

PROJECT NO:

SELLMEYER ENGINEERING

P.O. BOX 356
McKinney, Texas 75070

PREP: 20060211, JSS

EXHIBIT E1-3
VERTICAL SKETCH OF ANTENNA SYSTEM
PROPOSED CHAN 270C2
ELDON, MISSOURI
RANDALL C. WRIGHT

CHK:

APPVD:

REV:

DWG NO:

SHT: 1 OF 1

SELLMEYER ENGINEERING
 BROADCAST & COMMUNICATION CONSULTING ENGINEERS
 P. O. Box 356 McKinney, Texas 75070
 MEMBER AFCCE

EXHIBIT E1-4
TABULATION OF DISTANCES TO SERVICE CONTOURS
RANDALL C. WRIGHT
CHANNEL 270C2
ELDON, MISSOURI
AUCTION 62/MM-FM-403A
FACILITY NUMBER: 165951

DISTANCES TO CONTOURS (Kilometers):

Frequency: 101.9 MHz

Coordinates: N.L.: 38° 16' 46" W.L.: 92° 35' 06"

F(50,50) Curves Number of Contours: 2

AZ	HAAT	ERP	CONT LVL (dBu):		AZ	HAAT	ERP	CONT LVL dBu):	
(deg)	(m)	(kW)	70.0	60.0	(deg)	(m)	(kW)	70.0	60.0
.0	127	42.7000	29.1	47.6	180.0	171	42.7000	33.5	53.2
5.0	127	42.7000	29.0	47.5	185.0	184	42.7000	34.7	54.5
10.0	130	42.7000	29.4	48.0	190.0	190	42.7000	35.2	55.0
15.0	137	42.7000	30.1	49.0	195.0	187	42.7000	35.0	54.8
20.0	135	42.7000	29.8	48.6	200.0	196	42.7000	35.8	55.6
25.0	137	42.7000	30.0	48.9	205.0	190	42.7000	35.2	55.0
30.0	139	42.7000	30.3	49.3	210.0	190	42.7000	35.3	55.1
35.0	144	42.7000	30.8	50.0	215.0	188	42.7000	35.1	54.9
40.0	144	42.7000	30.8	50.0	220.0	190	42.7000	35.3	55.1
45.0	144	42.7000	30.7	49.9	225.0	188	42.7000	35.1	54.8
50.0	150	42.7000	31.4	50.8	230.0	185	42.7000	34.8	54.6
55.0	158	42.7000	32.2	51.8	235.0	186	42.7000	34.9	54.7
60.0	163	42.7000	32.8	52.4	240.0	184	42.7000	34.8	54.5
65.0	165	42.7000	32.9	52.6	245.0	179	42.7000	34.3	54.1
70.0	168	42.7000	33.3	53.0	250.0	183	42.7000	34.6	54.4
75.0	173	42.7000	33.7	53.5	255.0	184	42.7000	34.7	54.5
80.0	171	42.7000	33.6	53.3	260.0	174	42.7000	33.8	53.6
85.0	173	38.0515	32.8	52.5	265.0	169	42.7000	33.4	53.1
90.0	180	34.5102	32.7	52.3	270.0	166	42.7000	33.0	52.7
95.0	179	30.8508	31.6	51.2	275.0	162	42.7000	32.7	52.3
100.0	174	30.8508	31.2	50.7	280.0	170	42.7000	33.5	53.2
105.0	176	33.8987	32.1	51.7	285.0	166	42.7000	33.0	52.7
110.0	176	38.0515	33.1	52.8	290.0	160	42.7000	32.5	52.1
115.0	179	42.7000	34.3	54.1	295.0	159	42.7000	32.3	51.9
120.0	181	42.7000	34.4	54.2	300.0	155	42.7000	31.8	51.4
125.0	177	42.7000	34.1	53.9	305.0	152	42.7000	31.5	51.0
130.0	173	42.7000	33.8	53.5	310.0	144	42.7000	30.7	49.9
135.0	177	42.7000	34.1	53.9	315.0	137	42.7000	30.1	49.0
140.0	186	42.7000	34.9	54.7	320.0	128	42.7000	29.1	47.6
145.0	184	42.7000	34.8	54.6	325.0	124	42.7000	28.8	47.1
150.0	190	42.7000	35.3	55.1	330.0	123	42.7000	28.7	47.0
155.0	199	42.7000	35.9	55.8	335.0	124	42.7000	28.8	47.2
160.0	189	42.7000	35.2	55.0	340.0	124	42.7000	28.8	47.2
165.0	185	42.7000	34.8	54.6	345.0	129	42.7000	29.3	47.9
170.0	177	42.7000	34.1	53.9	350.0	131	42.7000	29.4	48.1
175.0	165	42.7000	33.0	52.7	355.0	126	42.7000	29.0	47.4

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EXHIBIT E1-6A
TABULATION OF SERVICE CONTOURS-PROPOSED 270C2
RANDALL C. WRIGHT
CHANNEL 270C2
ELDON, MISSOURI
AUCTION 62/MM-FM-403A
FACILITY NUMBER: 165951

DISTANCES TO SERVICE CONTOURS (Kilometers):
 PROPOSED 270C2, ELDON, MO.
 Frequency: 101.9 MHz
 Coordinates: N.L.: 38° 16' 46" W.L.: 92° 35' 06"
 F(50,50) Curves Number of Contours: 2

AZ	HAAT	ERP	CTR LVLS (dBu):		AZ	HAAT	ERP	CTR LVLS dBu):	
(deg)	(m)	(kW)	70.0	60.0	(deg)	(m)	(kW)	70.0	60.0
.0	127	42.7000	29.1	47.6	180.0	171	42.7000	33.5	53.2
5.0	127	42.7000	29.0	47.5	185.0	184	42.7000	34.7	54.5
10.0	130	42.7000	29.4	48.0	190.0	190	42.7000	35.2	55.0
15.0	137	42.7000	30.1	49.0	195.0	187	42.7000	35.0	54.8
20.0	135	42.7000	29.8	48.6	200.0	196	42.7000	35.8	55.6
25.0	137	42.7000	30.0	48.9	205.0	190	42.7000	35.2	55.0
30.0	139	42.7000	30.3	49.3	210.0	190	42.7000	35.3	55.1
35.0	144	42.7000	30.8	50.0	215.0	188	42.7000	35.1	54.9
40.0	144	42.7000	30.8	50.0	220.0	190	42.7000	35.3	55.1
45.0	144	42.7000	30.7	49.9	225.0	188	42.7000	35.1	54.8
50.0	150	42.7000	31.4	50.8	230.0	185	42.7000	34.8	54.6
55.0	158	42.7000	32.2	51.8	235.0	186	42.7000	34.9	54.7
60.0	163	42.7000	32.8	52.4	240.0	184	42.7000	34.8	54.5
65.0	165	42.7000	32.9	52.6	245.0	179	42.7000	34.3	54.1
70.0	168	42.7000	33.3	53.0	250.0	183	42.7000	34.6	54.4
75.0	173	42.7000	33.7	53.5	255.0	184	42.7000	34.7	54.5
80.0	171	42.7000	33.6	53.3	260.0	174	42.7000	33.8	53.6
85.0	173	38.0515	32.8	52.5	265.0	169	42.7000	33.4	53.1
90.0	180	34.5102	32.7	52.3	270.0	166	42.7000	33.0	52.7
95.0	179	30.8508	31.6	51.2	275.0	162	42.7000	32.7	52.3
100.0	174	30.8508	31.2	50.7	280.0	170	42.7000	33.5	53.2
105.0	176	33.8987	32.1	51.7	285.0	166	42.7000	33.0	52.7
110.0	176	38.0515	33.1	52.8	290.0	160	42.7000	32.5	52.1
115.0	179	42.7000	34.3	54.1	295.0	159	42.7000	32.3	51.9
120.0	181	42.7000	34.4	54.2	300.0	155	42.7000	31.8	51.4
125.0	177	42.7000	34.1	53.9	305.0	152	42.7000	31.5	51.0
130.0	173	42.7000	33.8	53.5	310.0	144	42.7000	30.7	49.9
135.0	177	42.7000	34.1	53.9	315.0	137	42.7000	30.1	49.0
140.0	186	42.7000	34.9	54.7	320.0	128	42.7000	29.1	47.6
145.0	184	42.7000	34.8	54.6	325.0	124	42.7000	28.8	47.1
150.0	190	42.7000	35.3	55.1	330.0	123	42.7000	28.7	47.0
155.0	199	42.7000	35.9	55.8	335.0	124	42.7000	28.8	47.2
160.0	189	42.7000	35.2	55.0	340.0	124	42.7000	28.8	47.2
165.0	185	42.7000	34.8	54.6	345.0	129	42.7000	29.3	47.9
170.0	177	42.7000	34.1	53.9	350.0	131	42.7000	29.4	48.1
175.0	165	42.7000	33.0	52.7	355.0	126	42.7000	29.0	47.4

SELLMEYER ENGINEERING
 BROADCAST & COMMUNICATION CONSULTING ENGINEERS
 P. O. Box 356 McKinney, Texas 75070
 MEMBER AFCCE

EXHIBIT E1-6B
TABULATION OF INTERFERING CONTOURS-PROPOSED 270C2
RANDALL C. WRIGHT
CHANNEL 270C2
ELDON, MISSOURI
AUCTION 62/MM-FM-403A
FACILITY NUMBER: 165951

DISTANCES TO SERVICE CONTOURS (Kilometers):
 PROPOSED 270C2, ELDON, MO.
 Frequency: 101.9 MHz
 Coordinates: N.L.: 38° 16' 46" W.L.: 92° 35' 06"
 F(50,10) Curves Number of Contours: 1

AZ	HAAT	ERP	CTR LVLS (dBu):	AZ	HAAT	ERP	CTR LVLS dBu):
(degs)	(m)	(kW)	54.0	(degs)	(m)	(kW)	54.0
.0	127	42.7000	72.3	180.0	171	42.7000	78.8
5.0	127	42.7000	72.2	185.0	184	42.7000	80.6
10.0	130	42.7000	72.7	190.0	190	42.7000	81.3
15.0	137	42.7000	73.9	195.0	187	42.7000	81.0
20.0	135	42.7000	73.5	200.0	196	42.7000	82.2
25.0	137	42.7000	73.8	205.0	190	42.7000	81.4
30.0	139	42.7000	74.2	210.0	190	42.7000	81.4
35.0	144	42.7000	75.0	215.0	188	42.7000	81.1
40.0	144	42.7000	75.0	220.0	190	42.7000	81.4
45.0	144	42.7000	74.9	225.0	188	42.7000	81.1
50.0	150	42.7000	75.9	230.0	185	42.7000	80.8
55.0	158	42.7000	77.0	235.0	186	42.7000	80.8
60.0	163	42.7000	77.8	240.0	184	42.7000	80.6
65.0	165	42.7000	78.0	245.0	179	42.7000	80.0
70.0	168	42.7000	78.5	250.0	183	42.7000	80.4
75.0	173	42.7000	79.1	255.0	184	42.7000	80.6
80.0	171	42.7000	78.9	260.0	174	42.7000	79.3
85.0	173	38.0515	77.6	265.0	169	42.7000	78.7
90.0	180	34.5102	77.2	270.0	166	42.7000	78.1
95.0	179	30.8508	75.6	275.0	162	42.7000	77.7
100.0	174	30.8508	74.9	280.0	170	42.7000	78.8
105.0	176	33.8987	76.4	285.0	166	42.7000	78.2
110.0	176	38.0515	78.0	290.0	160	42.7000	77.4
115.0	179	42.7000	79.9	295.0	159	42.7000	77.2
120.0	181	42.7000	80.2	300.0	155	42.7000	76.6
125.0	177	42.7000	79.7	305.0	152	42.7000	76.2
130.0	173	42.7000	79.2	310.0	144	42.7000	74.9
135.0	177	42.7000	79.7	315.0	137	42.7000	73.9
140.0	186	42.7000	80.9	320.0	128	42.7000	72.3
145.0	184	42.7000	80.6	325.0	124	42.7000	71.7
150.0	190	42.7000	81.4	330.0	123	42.7000	71.6
155.0	199	42.7000	82.4	335.0	124	42.7000	71.8
160.0	189	42.7000	81.2	340.0	124	42.7000	71.8
165.0	185	42.7000	80.8	345.0	129	42.7000	72.6
170.0	177	42.7000	79.6	350.0	131	42.7000	72.8
175.0	165	42.7000	78.1	355.0	126	42.7000	72.0

SELLMEYER ENGINEERING
 BROADCAST & COMMUNICATION CONSULTING ENGINEERS
 P. O. Box 356 McKinney, Texas 75070
 MEMBER AFCCE

EXHIBIT E1-7A
TABULATION OF SERVICE CONTOURS-CUBA, MO. CHAN 271A
RANDALL C. WRIGHT
CHANNEL 270C2
ELDON, MISSOURI
AUCTION 62/MM-FM-403A
FACILITY NUMBER: 165951

DISTANCES TO SERVICE CONTOURS (Kilometers):
 NEW APP, CUBA, MO. (BNPH-20060309AAZ)
 Frequency: 102.1 MHz
 Coordinates: N.L.: 38° 08' 06" W.L.: 91° 23' 59"
 F(50,50) Curves Number of Contours: 2

AZ (degs)	HAAT (m)	ERP (kW)	LVLS (dBu):		AZ (degs)	HAAT (m)	ERP (kW)	LVLS (dBu):	
			70.0	60.0				70.0	60.0
.0	162	2.3500	16.4	28.3	180.0	155	2.3500	15.9	27.7
5.0	169	2.3500	16.8	28.9	185.0	155	2.3500	16.0	27.8
10.0	175	2.3500	17.1	29.3	190.0	151	2.3500	15.7	27.4
15.0	182	2.3500	17.4	29.8	195.0	140	2.3500	15.0	26.6
20.0	186	2.3500	17.6	30.2	200.0	138	2.3500	14.9	26.4
25.0	182	2.3500	17.4	29.9	205.0	138	2.3500	14.9	26.4
30.0	176	2.3500	17.1	29.4	210.0	140	2.3500	15.0	26.5
35.0	170	2.3500	16.8	29.0	215.0	136	2.3500	14.8	26.2
40.0	168	2.3500	16.7	28.8	220.0	131	2.3500	14.4	25.8
45.0	167	2.3500	16.7	28.8	225.0	128	2.3500	14.3	25.5
50.0	166	2.3500	16.6	28.7	230.0	126	2.3500	14.2	25.4
55.0	170	2.3500	16.8	29.0	235.0	133	2.3500	14.6	26.0
60.0	166	2.3500	16.6	28.7	240.0	140	2.3500	15.0	26.5
65.0	163	2.3500	16.4	28.4	245.0	140	2.3500	15.0	26.5
70.0	158	2.3500	16.1	28.0	250.0	139	2.3500	14.9	26.4
75.0	155	2.3500	15.9	27.8	255.0	141	2.3500	15.1	26.6
80.0	154	2.3500	15.9	27.7	260.0	142	2.3500	15.1	26.7
85.0	151	2.3500	15.7	27.4	265.0	145	2.3500	15.3	26.9
90.0	153	2.3500	15.8	27.6	270.0	153	2.3500	15.8	27.6
95.0	152	2.3500	15.8	27.5	275.0	156	2.3500	16.0	27.8
100.0	151	2.3500	15.7	27.4	280.0	158	2.3500	16.1	28.0
105.0	150	2.3500	15.6	27.3	285.0	163	2.3500	16.4	28.4
110.0	150	2.3500	15.6	27.3	290.0	163	2.3500	16.4	28.4
115.0	147	2.3500	15.4	27.1	295.0	160	2.3500	16.3	28.2
120.0	150	2.3500	15.6	27.4	300.0	164	2.3500	16.5	28.5
125.0	153	2.3500	15.8	27.6	305.0	169	2.3500	16.8	28.9
130.0	157	2.3500	16.1	27.9	310.0	168	2.3500	16.7	28.8
135.0	164	2.3500	16.5	28.4	315.0	172	2.3500	16.9	29.1
140.0	171	2.3500	16.9	29.0	320.0	173	2.3500	17.0	29.2
145.0	172	2.3500	16.9	29.1	325.0	178	2.3500	17.2	29.6
150.0	167	2.3500	16.7	28.7	330.0	182	2.3500	17.4	29.8
155.0	164	2.3500	16.5	28.4	335.0	179	2.3500	17.3	29.7
160.0	160	2.3500	16.2	28.1	340.0	183	2.3500	17.5	29.9
165.0	157	2.3500	16.1	27.9	345.0	190	2.3500	17.8	30.5
170.0	150	2.3500	15.6	27.3	350.0	185	2.3500	17.6	30.1
175.0	145	2.3500	15.3	26.9	355.0	176	2.3500	17.1	29.4

SELLMEYER ENGINEERING
 BROADCAST & COMMUNICATION CONSULTING ENGINEERS
 P. O. Box 356 McKinney, Texas 75070
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EXHIBIT E1-7B
TABULATION OF INTERFERING CONTOURS-CUBA, MO. CHAN 271A
RANDALL C. WRIGHT
CHANNEL 270C2
ELDON, MISSOURI
AUCTION 62/MM-FM-403A
FACILITY NUMBER: 165951

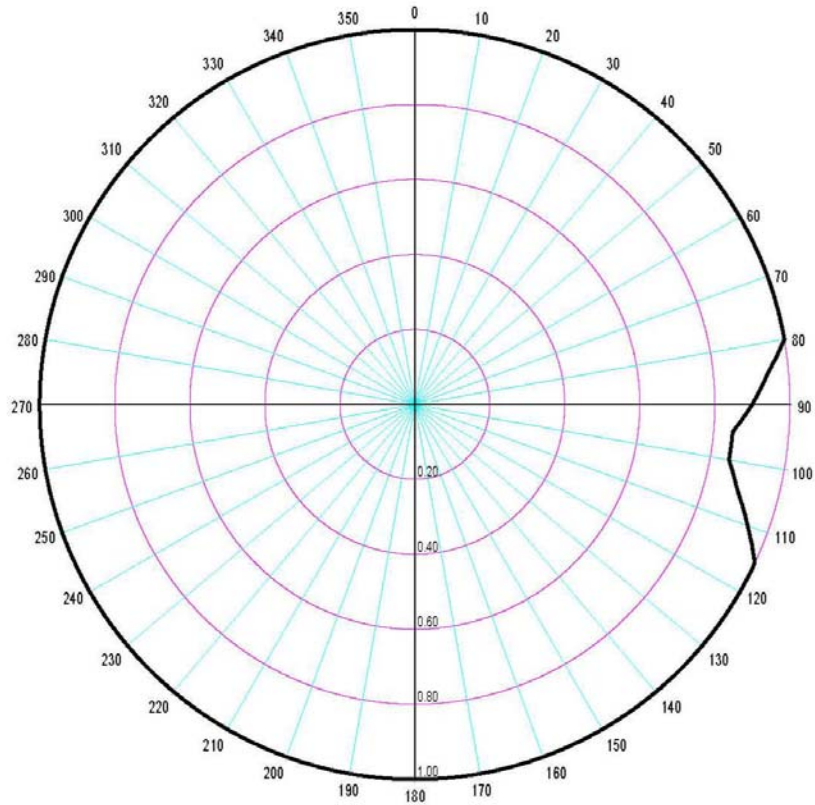
DISTANCES TO INTERFERING CONTOURS (Kilometers):
 NEW APP, CUBA, MO. (BNPH-20060303AAZ)
 Frequency: 102.1 MHz
 Coordinates: N.L.: 38° 08' 06" W.L.: 91° 23' 59"
 F(50,10) Curves Number of Contours: 1

AZ	HAAT	ERP	LVLS (dBu):	AZ	HAAT	ERP	LVLS (dBu):
(deg)	(m)	(kW)	54.0	(deg)	(m)	(kW)	54.0
.0	162	2.3500	42.8	180.0	155	2.3500	41.9
5.0	169	2.3500	43.6	185.0	155	2.3500	42.0
10.0	175	2.3500	44.2	190.0	151	2.3500	41.5
15.0	182	2.3500	45.0	195.0	140	2.3500	40.2
20.0	186	2.3500	45.5	200.0	138	2.3500	39.9
25.0	182	2.3500	45.0	205.0	138	2.3500	39.9
30.0	176	2.3500	44.3	210.0	140	2.3500	40.1
35.0	170	2.3500	43.7	215.0	136	2.3500	39.7
40.0	168	2.3500	43.5	220.0	131	2.3500	39.0
45.0	167	2.3500	43.4	225.0	128	2.3500	38.6
50.0	166	2.3500	43.3	230.0	126	2.3500	38.4
55.0	170	2.3500	43.7	235.0	133	2.3500	39.3
60.0	166	2.3500	43.3	240.0	140	2.3500	40.1
65.0	163	2.3500	42.8	245.0	140	2.3500	40.2
70.0	158	2.3500	42.3	250.0	139	2.3500	40.1
75.0	155	2.3500	42.0	255.0	141	2.3500	40.3
80.0	154	2.3500	41.9	260.0	142	2.3500	40.4
85.0	151	2.3500	41.5	265.0	145	2.3500	40.7
90.0	153	2.3500	41.8	270.0	153	2.3500	41.7
95.0	152	2.3500	41.7	275.0	156	2.3500	42.0
100.0	151	2.3500	41.5	280.0	158	2.3500	42.3
105.0	150	2.3500	41.4	285.0	163	2.3500	42.9
110.0	150	2.3500	41.3	290.0	163	2.3500	42.8
115.0	147	2.3500	41.0	295.0	160	2.3500	42.6
120.0	150	2.3500	41.4	300.0	164	2.3500	43.0
125.0	153	2.3500	41.8	305.0	169	2.3500	43.6
130.0	157	2.3500	42.2	310.0	168	2.3500	43.4
135.0	164	2.3500	42.9	315.0	172	2.3500	43.9
140.0	171	2.3500	43.7	320.0	173	2.3500	44.0
145.0	172	2.3500	43.9	325.0	178	2.3500	44.6
150.0	167	2.3500	43.4	330.0	182	2.3500	44.9
155.0	164	2.3500	42.9	335.0	179	2.3500	44.7
160.0	160	2.3500	42.5	340.0	183	2.3500	45.1
165.0	157	2.3500	42.2	345.0	190	2.3500	45.9
170.0	150	2.3500	41.4	350.0	185	2.3500	45.4
175.0	145	2.3500	40.7	355.0	176	2.3500	44.3

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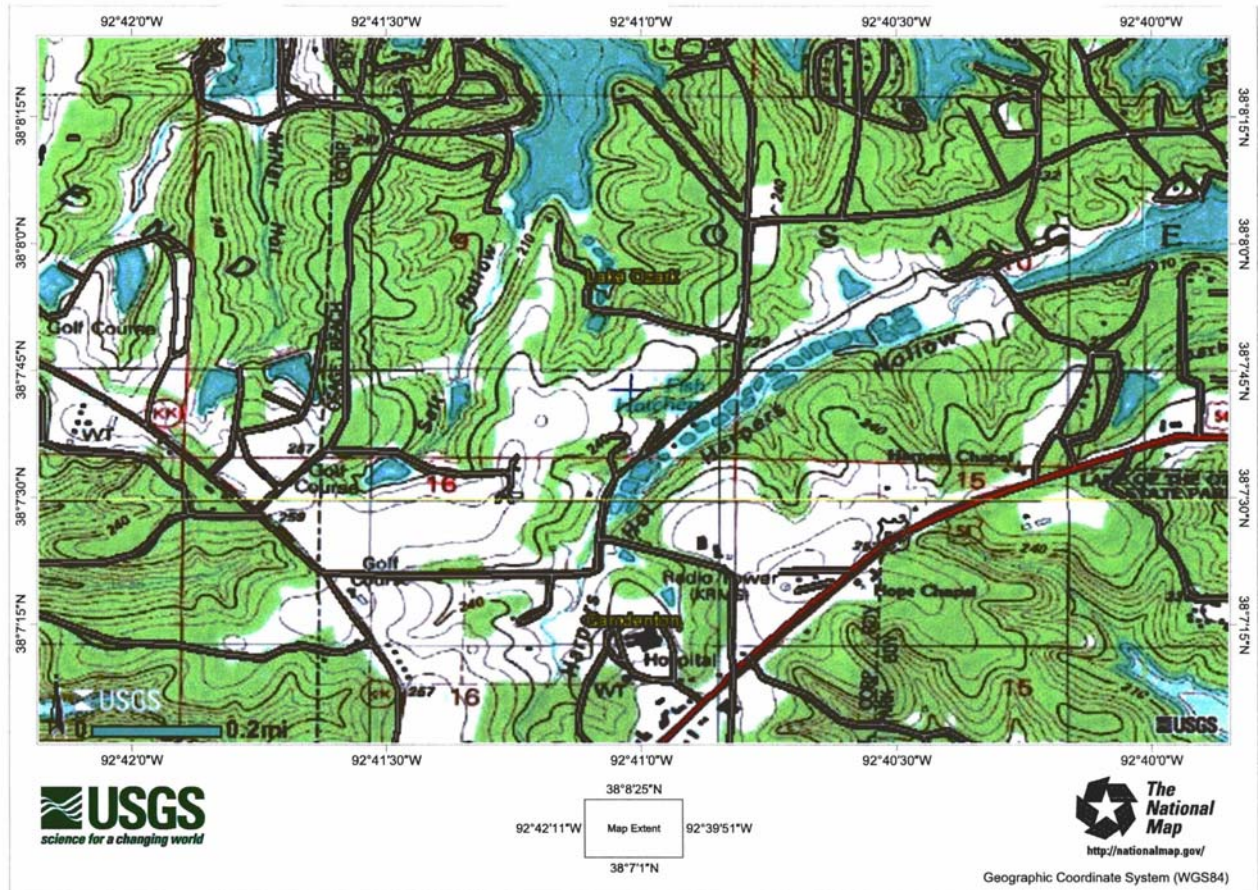
EXHIBIT E1-9
PLOT & TABULATION OF PROPOSED ANTENNA PATTERN
RANDALL C. WRIGHT
CHANNEL 270C2
ELDON, MISSOURI
AUCTION 62/MM-FM-403A
FACILITY NUMBER: 165951



Azim	Rel.FS	ERP [kW]	dBk	Azim	Rel.FS	ERP [kW]	dBk	Azim	Rel.FS	ERP [kW]	dBk	Azim	Rel.FS	ERP [kW]	dBk
0.0	1.000	42.700	16.304	90.0	0.899	34.510	15.379	180.0	1.000	42.700	16.304	270.0	1.000	42.700	16.304
5.0	1.000	42.700	16.304	95.0	0.850	30.851	14.893	185.0	1.000	42.700	16.304	275.0	1.000	42.700	16.304
10.0	1.000	42.700	16.304	100.0	0.850	30.851	14.893	190.0	1.000	42.700	16.304	280.0	1.000	42.700	16.304
15.0	1.000	42.700	16.304	105.0	0.891	33.899	15.302	195.0	1.000	42.700	16.304	285.0	1.000	42.700	16.304
20.0	1.000	42.700	16.304	110.0	0.944	38.052	15.804	200.0	1.000	42.700	16.304	290.0	1.000	42.700	16.304
25.0	1.000	42.700	16.304	115.0	1.000	42.700	16.304	205.0	1.000	42.700	16.304	295.0	1.000	42.700	16.304
30.0	1.000	42.700	16.304	120.0	1.000	42.700	16.304	210.0	1.000	42.700	16.304	300.0	1.000	42.700	16.304
35.0	1.000	42.700	16.304	125.0	1.000	42.700	16.304	215.0	1.000	42.700	16.304	305.0	1.000	42.700	16.304
40.0	1.000	42.700	16.304	130.0	1.000	42.700	16.304	220.0	1.000	42.700	16.304	310.0	1.000	42.700	16.304
45.0	1.000	42.700	16.304	135.0	1.000	42.700	16.304	225.0	1.000	42.700	16.304	315.0	1.000	42.700	16.304
50.0	1.000	42.700	16.304	140.0	1.000	42.700	16.304	230.0	1.000	42.700	16.304	320.0	1.000	42.700	16.304
55.0	1.000	42.700	16.304	145.0	1.000	42.700	16.304	235.0	1.000	42.700	16.304	325.0	1.000	42.700	16.304
60.0	1.000	42.700	16.304	150.0	1.000	42.700	16.304	240.0	1.000	42.700	16.304	330.0	1.000	42.700	16.304
65.0	1.000	42.700	16.304	155.0	1.000	42.700	16.304	245.0	1.000	42.700	16.304	335.0	1.000	42.700	16.304
70.0	1.000	42.700	16.304	160.0	1.000	42.700	16.304	250.0	1.000	42.700	16.304	340.0	1.000	42.700	16.304
75.0	1.000	42.700	16.304	165.0	1.000	42.700	16.304	255.0	1.000	42.700	16.304	345.0	1.000	42.700	16.304
80.0	1.000	42.700	16.304	170.0	1.000	42.700	16.304	260.0	1.000	42.700	16.304	350.0	1.000	42.700	16.304
85.0	0.944	38.052	15.804	175.0	1.000	42.700	16.304	265.0	1.000	42.700	16.304	355.0	1.000	42.700	16.304

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BROADCAST & COMMUNICATION CONSULTING ENGINEERS
P. O. Box 356 McKinney, Texas 75070
MEMBER AFCCE

EXHIBIT E1-10
MAP SHOWING FULLY SPACED ALLOTMENT SITE
RANDALL C. WRIGHT
CHANNEL 270C2
ELDON, MISSOURI
AUCTION 62/MM-FM-403A
FACILITY NUMBER: 165951



LOCATION:
NAD-27
38° 07' 43"
92° 41' 01"

SELLMEYER ENGINEERING
BROADCAST & COMMUNICATION CONSULTING ENGINEERS
P. O. Box 356 McKinney, Texas 75070
MEMBER AFCCE

CERTIFICATION OF ENGINEER

I hereby state that:

I am President of Sellmeyer Engineering

The Firm of Sellmeyer Engineering has been retained by Randall C. Wright to prepare this Engineering Exhibit

I am a graduate of Arizona State University with the degree of Bachelor of Science in Engineering

I am a Registered Professional Engineer in the States of Ohio and Texas

My qualifications as an Engineer are a matter of record with the Federal Communications Commission

This Engineering Exhibit was prepared by me personally or under my direct supervision, and

All facts stated herein are true and correct to the best of my knowledge and belief.



J. S. Sellmeyer, P. E.

April 18, 2006

P. O. Box 356
McKinney, Texas 75070
214-495-9764

