

**CONSTRUCTION PERMIT
MINOR MODIFICATION
W230CK - BPFT-20160129ANG**

A change in antenna height, type and pattern are proposed at the CP site. This construction permit is a 250 mile waiver CP and will remain at the same site, Therefore it remains in compliance with the 250 mile limit.

The translator will continue to rebroadcast the station specified in the original 250 mile application - WXVW(AM) at Jeffersonville, IN (facility ID # 63935).

Distance between:

38 15 57. N Latitude, 85 42 50. W Longitude (Point 1)

As decimals: 38.2658333 Latitude, -85.7138889 Longitude

and

36 57 37. N Latitude, 86 32 49. W Longitude (Point 2)

As decimals: 36.9602778 Latitude, -86.5469444 Longitude

Distance = 162.499 km (100.972 miles)

via the method in Sections 73.208 and 73.611(d)

This method is only suitable for distances up to 475 km (295 miles).

Azimuth, Point 1 to Point 2: 207.07° True

Azimuth, Point 2 to Point 1: 26.56 ° True

Allocation discussion:

A channel study is included as E1 demonstrating compliance with §74.1204 with the exception of 2nd adjacent channel stations WQMF and WWGZB-FM. A plot of the proposed 60 dBu contour is provided as E2 showing that it is entirely contained within primary station's 2 mV/m and 40 km radius.

- E1 Channel study
- E1A Interference analysis to WQMF - 239B
- E1B Interference analysis to WGZB-FM 243A
- E1C Aerial photograph of larger interference contour
- E2 60 dBu and 2 mV/m contours
- E3 ASR

All exhibits utilize the FCC 30 second terrain database.

WQMF and WGZB-FM analyses:

The proposed facility will be located inside the protected contour of WQMF on 239B and WGZB-FM on 243A. An interference analysis has been conducted based on the U/D ratio of +40 dB at the proposed site and exhibits E1A, E1B and E1C disprove interference.

WQMF places a 78.15 dBu contour at the site with a corresponding (50:10) interfering contour of 118.15 which clears the ground by at least 82.3 meters (see E1A).

WGBZ-FM places a 68.6 dBu at the site with a corresponding (50:10) interfering contour of 106.6 dBu which clears the ground by at least 20.9 meters based on the use of a 2 bay Nicom BKG-77 0.75 wavelength spaced antenna. The tallest building within the contour is three stories or 10 meters.

It is clear from E1A, E1B and the aerial photograph showing the interference contour (E1C) that the interference contour will not reach any populated area or major highways. Based on this showing, a waiver of Section 74.1204 is requested in accordance with *Living Way Ministries, Inc.* (FCC 08-242).

RF Exposure Calculation:

The proposed facility will utilize a Nicom two bay 0.75 wavelength spaced circularly polarized antenna with a center of radiation at 113 meters AGL on existing tower ASR#1255569. The RF contribution of the proposed translator was calculated using a worst case F factor of 1.0 and the formula included below to be 1.36 μ Watts/cm² or 0.68% of the maximum permissible 200 microwatts/cm² exposure for general population/uncontrolled exposure, and well below the 5% of that limit which requires consideration.

$$S \text{ (RF in } \mu\text{Watts/cm}^2\text{)} = \frac{33.4 (F^2 \text{ Vertical Factor}) X (H \text{ ERP} + V \text{ ERP in Watts})}{R^2 \text{ (distance to radiation center in meters} - 2 \text{ m)}}$$

E1 CHANNEL STUDY

REFERENCE
38 15 57.0 N.
85 42 50.0 W.

CH# 241D - 96.1 MHz, Pwr= 0.25 kW DA, HAAT= 92.8 M, COR= 244 M
Average Protected F(50-50)= 12.41 km
Standard Directional

DISPLAY DATES
DATA 11-23-16
SEARCH 11-23-16

CH CITY	CALL	TYPE STATE	ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
241D Jeffersonville	W230CK W230CK	CP	_C_	0.0 0.0	0.00 BPFT20160129ANG	38 15 57.0 85 42 50.0	0.250	43.3 241	12.6 Charles M. Anderson	-56.0*	-56.3*
239B Jeffersonville	WQMF	LIC	_C_	233.7 53.5	23.99 BLH19990211KA	38 08 16.0 85 56 06.0	28.500 196	6.7 387	70.8 Cc Licenses, Llc	6.5	-48.0* (1)
241C Owensboro	WSTO	LIC	_CN	249.6 68.6	154.06 BLH19820601AO	37 46 20.0 87 21 27.0	100.000 305	173.5 427	73.4 Midwest Communications, In	-30.6*	42.9
243A Lanesville	WGZB-FM	LIC	_CX	239.7 59.5	20.25 BLH20050927ACD	38 10 25.0 85 54 50.0	1.600 194	2.4 378	32.3 Alpha Media Licensee Llc	6.8	-12.7* (2)
243A Lanesville	AL9800	RSV-A	___	257.9 77.7	27.05 RM11069	38 12 52.0 86 01 00.0	6.000 100	2.9 312	29.8	13.1	-3.5*
295B St. Matthews	AL9833	RSV-A	___	320.4 140.3	15.31 RM11334	38 22 19.0 85 49 33.0	50.000 150	0.0 339	0.0	14.5R	0.8M
295B St. Matthews	WVEZ	LIC	_CX	320.4 140.3	15.31 BLH20070706AAP	38 22 19.0 85 49 33.0	24.500 204	0.0 391	0.0 Sm-wvez, Llc	14.5R	0.8M
241A Stamping Ground	WLXO	LIC	ZCN	93.5 274.2	102.09 BLH20000728ABS	38 12 15.0 84 32 51.0	6.000 100	90.2 369	30.9 Clarity Communications, In	1.5	35.5
242A Austin	WJAA	LIC	_CN	351.6 171.5	65.00 BLH19911028KF	38 50 39.0 85 49 26.0	3.000 100	38.6 274	25.4 Midland Media, Inc.	13.4	20.2
244A Madison	WORX-FM	LIC	_C_	29.9 210.1	61.17 BLH19990312KD	38 44 32.0 85 21 43.0	1.050 168	1.9 387	25.4 Dubois County Broadcasting	45.7	34.6
240A Vevay	WKID	LIC	_C_	42.9 223.3	87.04 BMLH20150820AAV	38 50 15.4 85 01 47.9	2.800 94	39.2 324	25.8 Dial Broadcasting Inc	34.6	41.1
241B Richmond	WQLK	LIC	_CX	20.1 200.6	192.78 BLH20130325AMC	39 53 28.5 84 56 09.5	50.000 150	140.2 474	67.2 Brewer Broadcasting Corpor	39.4	65.7
242C3 Stanford	WXKY-FM	LIC	_C_	137.8 318.3	110.81 BMLED20040907ABM	37 31 27.0 84 52 12.0	4.900 223	58.1 542	39.1 Educational Media Foundati	42.4	57.3

Terrain database is FCC NGDC 30 Sec , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
In & Out distances between contours are shown at closest points. Reference zone= East Zone, Co to 3rd adjacent.
All separation margins (if shown) include rounding. Call signs with strikeout need not be protected.
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 restricted contour.
Reference station has protected zone issue: AM tower

(1) See E1A and E1C for disproof of interference per Living Way.

(2) See E1B and E1C for disproof of interference per Living Way.

E1A WQFM ANALYSIS

W230CK Louisville, KY

74.1204(d) Showing

Translator or LPFM Maximum Licensed ERP = 0.25

Translator or LPFM Antenna Height AG = 113 Meters

W230CK Antenna Model = NICOM BKG77-2-075

Protected Station's Contour = 78.15369 dBu

Translator's or LPFM's full Interference contour 118.15369

Review Azimuth = 0 Degrees True

Relative Field on the horizon at Review Azimuth = 1.000

Translator/LPFM ERP on the horizon at Review Azimuth = 0.25 kW

Distance between stations = 24.0 km

Protected Station= WQMF, 28.5 kW, 387 M Meters COR AMSL

Depression Angle From Horizon(Deg)	Vertical Relative Field	Horizontal Relative Field	ERP (kw)	Dist to IX Contour Along Dep. Angle(m)	Dist to IX Contour From Tower Base(m)	Height IX Above Ground (m)
00.00	1.00	1.0	0.2500	137.1783	137.1783	113.000
05.00	0.977	1.0	0.2386	134.0232	133.5132	101.319
10.00	0.91	1.0	0.2070	124.8323	122.9358	091.323
15.00	0.796	1.0	0.1584	109.1939	105.4733	084.739
20.00	0.654	1.0	0.1069	089.7146	084.3042	082.316
25.00	0.494	1.0	0.0610	067.7661	061.4169	084.361
30.00	0.333	1.0	0.0277	045.6804	039.5604	090.160
35.00	0.18	1.0	0.0081	024.6921	020.2266	098.837
40.00	0.045	1.0	0.0005	006.1730	004.7288	109.032
45.00	0.062	1.0	0.0010	008.5051	006.0140	106.986
50.00	0.139	1.0	0.0048	019.0678	012.2565	098.393
55.00	0.186	1.0	0.0086	025.5152	014.6349	092.099
60.00	0.208	1.0	0.0108	028.5331	014.2665	088.290
65.00	0.207	1.0	0.0107	028.3959	012.0006	087.265
70.00	0.19	1.0	0.0090	026.0639	008.9144	088.508
75.00	0.164	1.0	0.0067	022.4972	005.8227	091.269
80.00	0.132	1.0	0.0044	018.1075	003.1443	095.168
85.00	0.107	1.0	0.0029	014.6781	001.2793	098.378
90.00	0.097	1.0	0.0024	013.3063	000.0000	099.694

E1B WGZB-FM ANALYSIS

W230CK Louisville, KY

74.1204(d) Showing

Translator or LPFM Maximum Licensed ERP = 0.25

Translator or LPFM Antenna Height AG = 113 Meters

W230CK Antenna Model = NICOM BKG77-2-075

Protected Station's Contour = 68.60863 dBu

Translator's or LPFM's full Interference contour 108.60863

Review Azimuth = 0 Degrees True

Relative Field on the horizon at Review Azimuth = 1.000

Translator/LPFM ERP on the horizon at Review Azimuth = 0.25 kW

Distance between stations = 20.3 km

Protected Station= WGZB-F, 1.6 kW, 378.3 M Meters COR AMSL

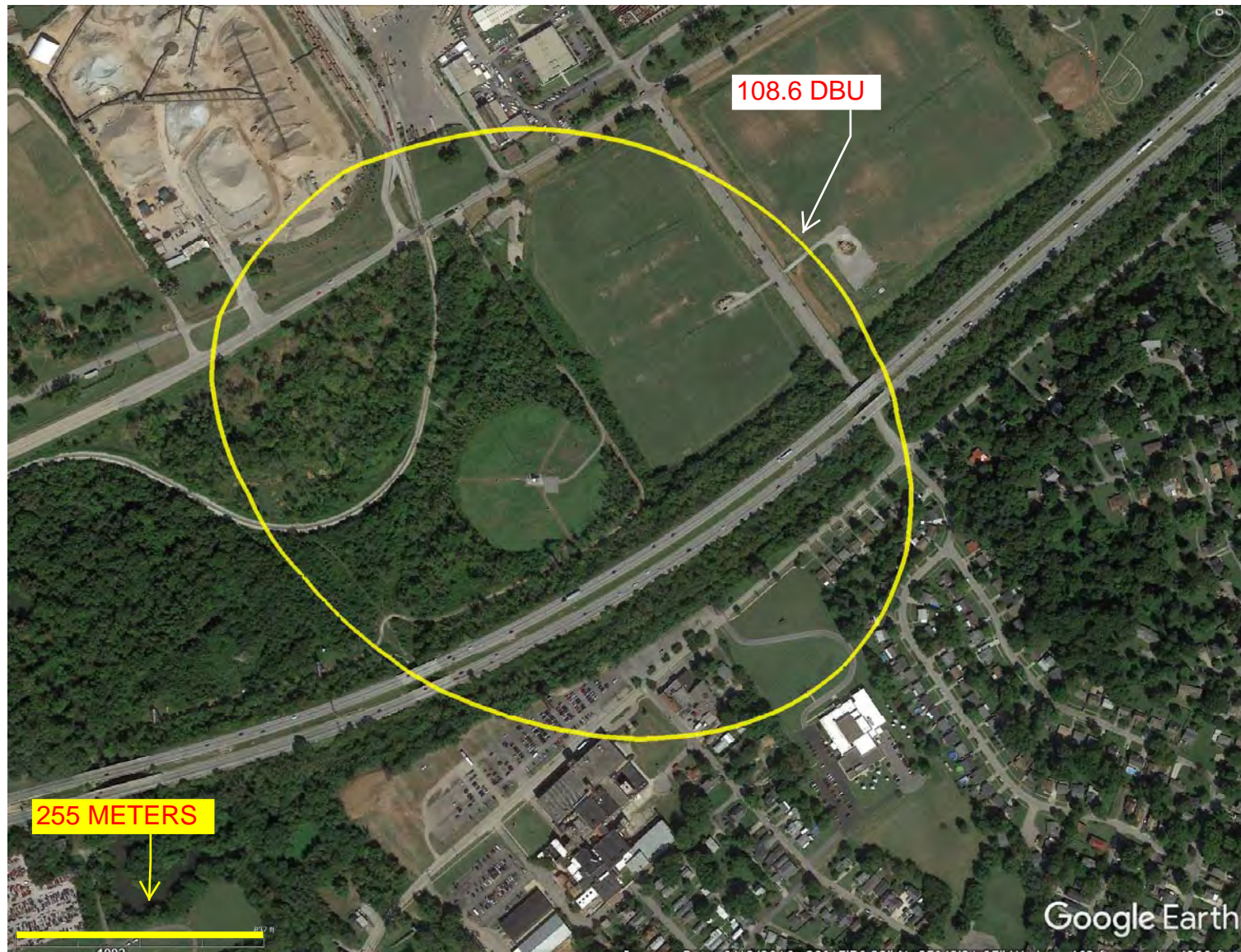
Depression Angle From Horizon(Deg)	Vertical Relative Field	Horizontal Relative Field	ERP (kw)	Dist to IX Contour Along Dep. Angle(m)	Dist to IX Contour From Tower Base(m)	Height IX Above Ground (m)
00.00	1.00	1.0	0.2500	411.6598	411.6598	113.000
05.00	0.977	1.0	0.2386	402.1917	400.6612	077.947
10.00	0.91	1.0	0.2070	374.6105	368.9193	047.950
15.00	0.796	1.0	0.1584	327.6812	316.5158	028.190
20.00	0.654	1.0	0.1069	269.2255	252.9892	020.919
25.00	0.494	1.0	0.0610	203.3600	184.3067	027.056
30.00	0.333	1.0	0.0277	137.0827	118.7171	044.459
35.00	0.18	1.0	0.0081	074.0988	060.6982	070.499
40.00	0.045	1.0	0.0005	018.5247	014.1907	101.093
45.00	0.062	1.0	0.0010	025.5229	018.0474	094.953
50.00	0.139	1.0	0.0048	057.2207	036.7808	069.166
55.00	0.186	1.0	0.0086	076.5687	043.9180	050.279
60.00	0.208	1.0	0.0108	085.6252	042.8126	038.846
65.00	0.207	1.0	0.0107	085.2136	036.0128	035.770
70.00	0.19	1.0	0.0090	078.2154	026.7512	039.502
75.00	0.164	1.0	0.0067	067.5122	017.4734	047.788
80.00	0.132	1.0	0.0044	054.3391	009.4359	059.486
85.00	0.107	1.0	0.0029	044.0476	003.8390	069.120
90.00	0.097	1.0	0.0024	039.9310	000.0000	073.069

(1)

(1) The tallest structures within this range are three stories. The closest highway or building is at 125 meters. One three story structure is at a distance of 275 meters where the clearance is greater than 21 meters and the other three story structure is located at 400 meters where clearance is 78 meters.

X-Field™ By V-Soft

E1C AERIAL VIEW OF 108.6 DBU (50:10) CONTOUR



E1C STREET VIEW OF TALLEST BUILDING AT 400 METERS FROM SITE.



E1C STREET VIEW OF 2ND TALLEST BUILDING WITHIN 108.6 DBU

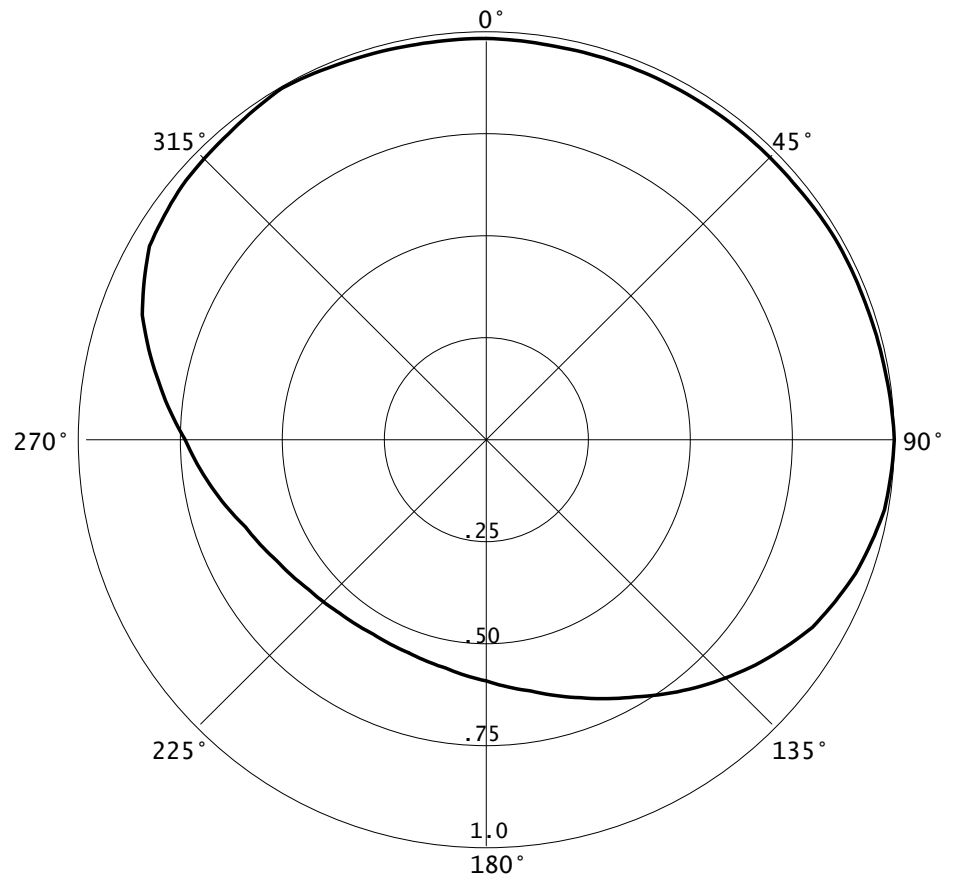


E1D DA TABULATION

RMS(V)= .853

Graph is Relative Field

Azi	Field	dBk	kw
000	0.988	-06.125	0.244
010	0.983	-06.170	0.242
020	0.983	-06.170	0.242
030	0.983	-06.170	0.242
040	0.983	-06.170	0.242
050	0.983	-06.170	0.242
060	0.988	-06.125	0.244
070	0.988	-06.125	0.244
080	0.992	-06.090	0.246
090	1.000	-06.021	0.250
100	0.991	-06.099	0.246
110	0.963	-06.348	0.232
120	0.923	-06.717	0.213
130	0.862	-07.310	0.186
140	0.797	-07.991	0.159
150	0.731	-08.742	0.134
160	0.676	-09.422	0.114
170	0.628	-10.061	0.099
180	0.594	-10.545	0.088
190	0.571	-10.888	0.082
200	0.558	-11.088	0.078
210	0.553	-11.166	0.076
220	0.558	-11.088	0.078
230	0.571	-10.888	0.082
240	0.594	-10.545	0.088
250	0.628	-10.061	0.099
260	0.682	-09.345	0.116
270	0.738	-08.659	0.136
280	0.815	-07.797	0.166
290	0.897	-06.965	0.201
300	0.953	-06.439	0.227
310	0.973	-06.258	0.237
320	0.983	-06.170	0.242
330	1.000	-06.021	0.250
340	0.992	-06.090	0.246
350	0.988	-06.125	0.244



BKG77-2 75% SPACED ANTENNA ORIENTED AT 30 DEGREES. PATTERN IS AS ROTATED. MANUFACTURER'S HORIZONTAL AND VERTICAL ELEVATION PATTERNS APPENDED TO THIS REPORT.

W230CK

Latitude: 38-15-57 N
Longitude: 085-42-50 W
ERP: 0.25 kW
Channel: 241
Frequency: 96.1 MHz
AMSL Height: 244.0 m
Elevation: 131.0 m
Horiz. Pattern: Directional

EXHIBIT E2**WXVW 2 mV/m****60 dBu****WXVW**

Charlestown

Sellersburg

New Albany

Louisville

Oak Park

Lynn

Douglass Hills

Shively

Buechel

Jeffersontown

Newburg

Fern Creek

Okolona Highview

Valley Station

Fairdale

Hillview

Mount Washington

Shepherdsville

Shelbyville

WXVW 25 MILE RADIUS

Scale 1:500,000

0 7 14 21 km

E3 Registration 1255569

 [Map Registration](#)

Registration Detail

Reg Number	1255569	Status	Constructed
File Number	A0983992	Constructed	07/12/2008
EMI	No	Dismantled	
NEPA	No		

Antenna Structure

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

Location (in NAD83 Coordinates)

Lat/Long	38-15-57.5 N 085-42-49.7 W	Address	River Road at Edith Road
City, State	Louisville , KY		
Zip	40206	County	JEFFERSON
Center of AM Array		Position of Tower in Array	

Heights (meters)

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
131.1	119.5
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
250.6	118.6

Painting and Lighting Specifications

FAA Chapters 3, 4, 5, 12
Paint and Light in Accordance with FAA Circular Number 70/7460-1K

FAA Notification

FAA Study	2006-ASO-2418-OE	FAA Issue Date	08/18/2006
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Owner & Contact Information

FRN	0017216862	Owner Entity Type	Limited Liability Company
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Owner

Salem Media of Massachusetts, LLC	P: (805)987-0400
Attention To: Scott Foster	F:
4880 Santa Rosa Road	E: Scott.Foster@SalemMedia.com
Camarillo , CA 93012	

Contact

Foster , Scott	P: (805)987-0400
Attention To: Scott Foster	F:
4880 Santa Rosa Road	E: Scott.Foster@SalemMedia.com
Camarillo , CA 93012	

Last Action Status

Status	Constructed	Received	11/24/2015
Purpose	Admin Update	Entered	11/24/2015
Mode	Interactive		

Related Applications

11/24/2015	A0983992	- Admin Update (AU)
07/23/2008	A0600173	- Change Owner (OC)
07/18/2008	A0599686	- Notification (NT)

Output from NADCON for station W230CK

North American Datum Conversion

NAD 83 to NAD 27

NADCON Program Version 2.11

Transformation #: 1 Region: Conus

Latitude

Longitude

NAD 27 datum values:

38 15 57.24570

85 42 49.83646

NAD 83 datum values:

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38 15 57.50000
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85 42 49.70000

NAD 27 - NAD 83 shift values:

-0.25430

0.13646 (secs.)

-7.841

3.317 (meters)

Magnitude of total shift:

8.514 (meters)

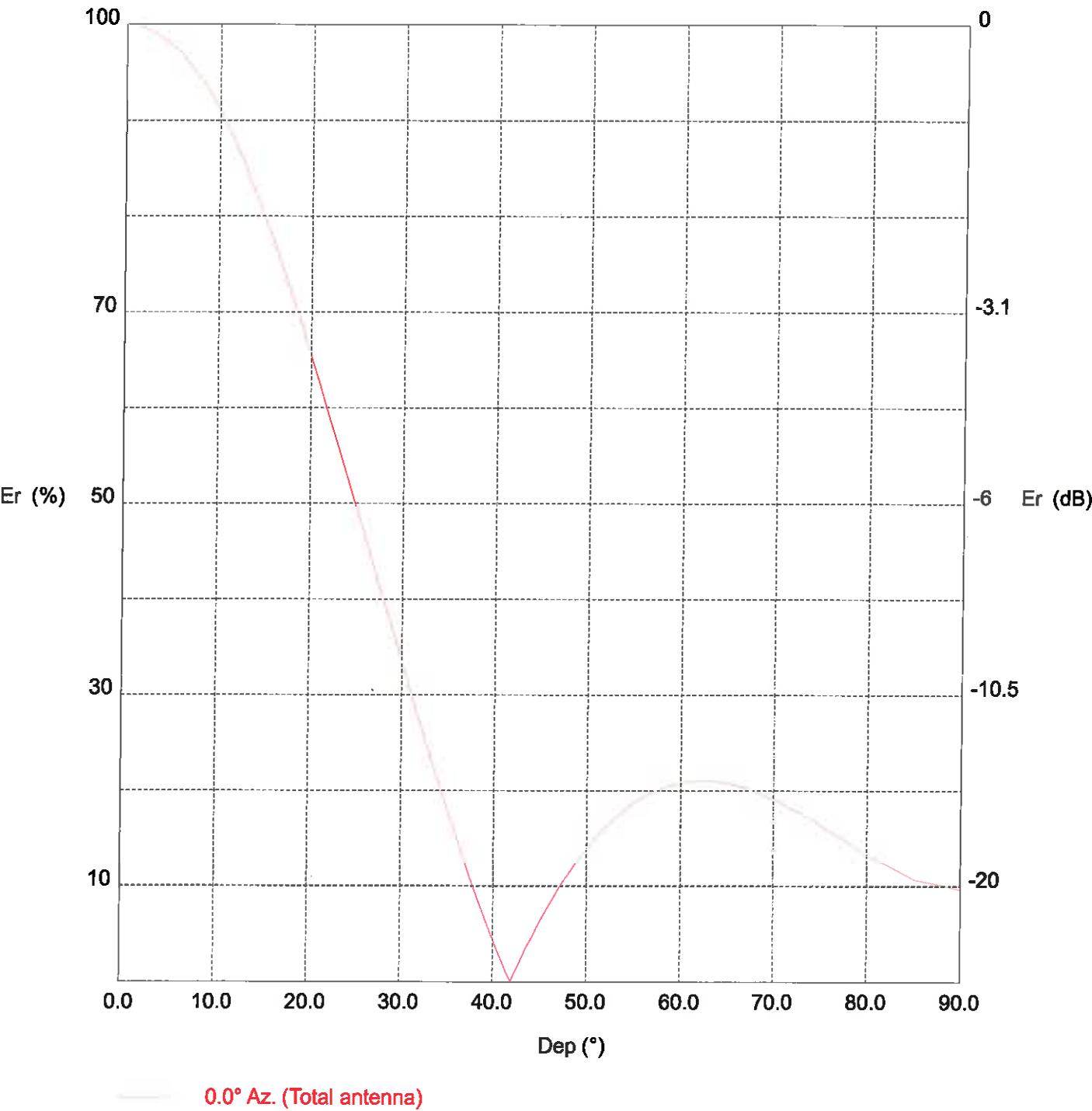


NGS HOME PAGE

TX station: GENERIC
Frequency: 98.00 MHz

Site name:

Vertical diagram



TX station: GENERIC

Site name:

Frequency: 98.00 MHz

Vertical diagram at an azimuth of 0° degrees

Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)
0.0	100.0	116.9	30.0	33.3	13.0	60.0	20.8	5.0
0.5	100.0	116.8	30.5	31.7	11.8	60.5	20.9	5.1
1.0	99.9	116.6	31.0	30.1	10.6	61.0	20.9	5.1
1.5	99.7	116.3	31.5	28.6	9.5	61.5	21.0	5.1
2.0	99.6	115.9	32.0	27.0	8.5	62.0	21.0	5.2
2.5	99.4	115.4	32.5	25.4	7.6	62.5	21.0	5.2
3.0	99.1	114.8	33.0	23.9	6.7	63.0	21.0	5.2
3.5	98.8	114.1	33.5	22.4	5.9	63.5	21.0	5.1
4.0	98.5	113.4	34.0	20.9	5.1	64.0	20.9	5.1
4.5	98.1	112.5	34.5	19.4	4.4	64.5	20.8	5.1
5.0	97.7	111.5	35.0	18.0	3.8	65.0	20.7	5.0
5.5	97.2	110.4	35.5	16.5	3.2	65.5	20.6	5.0
6.0	96.6	109.2	36.0	15.1	2.7	66.0	20.5	4.9
6.5	96.1	107.9	36.5	13.7	2.2	66.5	20.4	4.9
7.0	95.5	106.6	37.0	12.3	1.8	67.0	20.2	4.8
7.5	94.8	105.1	37.5	10.9	1.4	67.5	20.1	4.7
8.0	94.1	103.6	38.0	9.6	1.1	68.0	19.9	4.6
8.5	93.4	102.0	38.5	8.3	0.8	68.5	19.7	4.5
9.0	92.6	100.4	39.0	7.0	0.6	69.0	19.5	4.4
9.5	91.9	98.6	39.5	5.7	0.4	69.5	19.3	4.3
10.0	91.0	96.9	40.0	4.5	0.2	70.0	19.0	4.2
10.5	90.0	94.7	40.5	3.3	0.1	70.5	18.8	4.1
11.0	89.0	92.6	41.0	2.1	0.1	71.0	18.6	4.0
11.5	87.9	90.3	41.5	1.0	0.0	71.5	18.3	3.9
12.0	86.8	88.1	42.0	0.1	0.0	72.0	18.1	3.8
12.5	85.7	85.8	42.5	1.2	0.0	72.5	17.8	3.7
13.0	84.5	83.5	43.0	2.3	0.1	73.0	17.5	3.6
13.5	83.3	81.2	43.5	3.3	0.1	73.5	17.3	3.5
14.0	82.1	78.9	44.0	4.3	0.2	74.0	17.0	3.4
14.5	80.9	76.5	44.5	5.3	0.3	74.5	16.7	3.2
15.0	79.6	74.1	45.0	6.2	0.4	75.0	16.4	3.1
15.5	78.3	71.7	45.5	7.1	0.6	75.5	16.1	3.0
16.0	76.9	69.2	46.0	8.0	0.7	76.0	15.8	2.9
16.5	75.5	66.7	46.5	8.8	0.9	76.5	15.5	2.8
17.0	74.1	64.3	47.0	9.6	1.1	77.0	15.2	2.7
17.5	72.7	61.8	47.5	10.4	1.3	77.5	14.9	2.6
18.0	71.3	59.4	48.0	11.2	1.5	78.0	14.5	2.5
18.5	69.8	57.0	48.5	11.9	1.6	78.5	14.2	2.4
19.0	68.4	54.7	49.0	12.6	1.8	79.0	13.9	2.3
19.5	66.9	52.3	49.5	13.2	2.0	79.5	13.5	2.1
20.0	65.4	50.0	50.0	13.9	2.2	80.0	13.2	2.0
20.5	63.8	47.6	50.5	14.5	2.4	80.5	13.0	2.0
21.0	62.2	45.3	51.0	15.0	2.6	81.0	12.7	1.9
21.5	60.7	43.0	51.5	15.6	2.8	81.5	12.5	1.8
22.0	59.1	40.8	52.0	16.1	3.0	82.0	12.3	1.8
22.5	57.5	38.6	52.5	16.6	3.2	82.5	12.0	1.7
23.0	55.9	36.5	53.0	17.1	3.4	83.0	11.8	1.6
23.5	54.3	34.4	53.5	17.5	3.6	83.5	11.5	1.5
24.0	52.6	32.4	54.0	17.9	3.7	84.0	11.3	1.5
24.5	51.0	30.5	54.5	18.3	3.9	84.5	11.0	1.4
25.0	49.4	28.6	55.0	18.6	4.1	85.0	10.7	1.3
25.5	47.8	26.7	55.5	19.0	4.2	85.5	10.6	1.3
26.0	46.2	24.9	56.0	19.3	4.3	86.0	10.5	1.3
26.5	44.5	23.2	56.5	19.5	4.5	86.5	10.4	1.3
27.0	42.9	21.5	57.0	19.8	4.6	87.0	10.3	1.3
27.5	41.3	20.0	57.5	20.0	4.7	87.5	10.2	1.2
28.0	39.7	18.4	58.0	20.2	4.8	88.0	10.1	1.2
28.5	38.1	17.0	58.5	20.4	4.9	88.5	10.0	1.2
29.0	36.5	15.6	59.0	20.5	4.9	89.0	9.9	1.2
29.5	34.9	14.3	59.5	20.7	5.0	89.5	9.8	1.1

TX station:

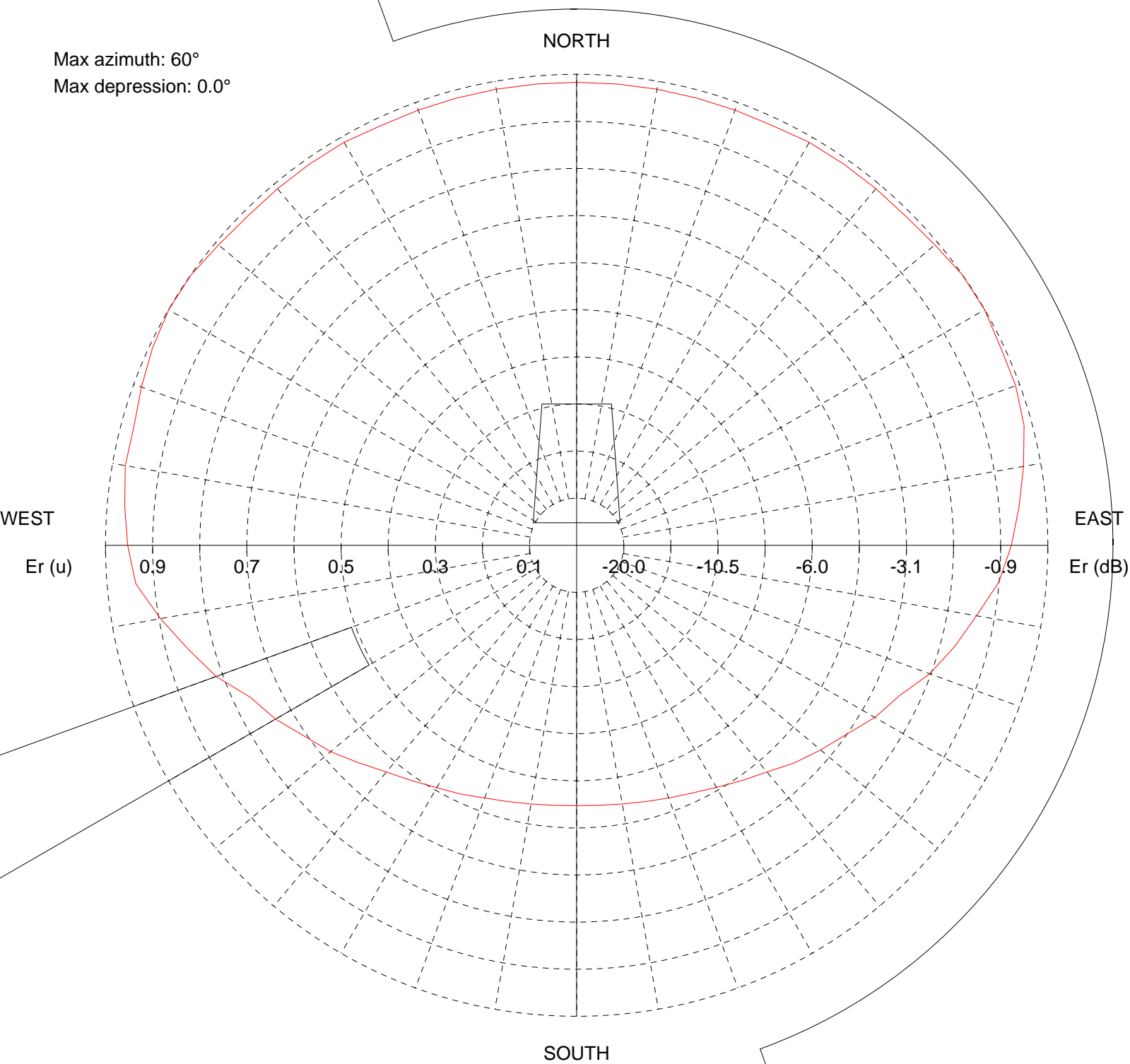
Site name: 1 BAY ANTENNA

Frequency: 100.00 MHz

Horizontal diagram of Maxima

Max azimuth: 60°

Max depression: 0.0°



0.0° depres. (Total antenna), Gain (dBd): -3.03 ERP T.max (KW): 0.498

ERP E.max (KW): 0.387

TX station:

Site name: 1 BAY ANTENNA

Frequency: 100.00 MHz

Horizontal diagram of Maxima

Az (°)	Dep (°)	Er (%)	ERP (W)	Az (°)	Dep (°)	Er (%)	ERP (W)	Az (°)	Dep (°)	Er (%)	ERP (W)
0.0	0.0	98.3	373.6	120.0	0.0	73.1	206.6	240.0	0.0	73.8	210.7
5.0	0.0	98.3	373.6	125.0	0.0	69.9	189.2	245.0	0.0	76.4	225.7
10.0	0.0	98.3	373.6	130.0	0.0	67.6	176.7	250.0	0.0	81.5	256.6
15.0	0.0	98.3	373.6	135.0	0.0	65.3	165.1	255.0	0.0	85.3	281.6
20.0	0.0	98.3	373.6	140.0	0.0	62.8	152.7	260.0	0.0	89.7	311.1
25.0	0.0	98.3	373.6	145.0	0.0	61.0	144.0	265.0	0.0	93.9	341.1
30.0	0.0	98.8	377.5	150.0	0.0	59.4	136.3	270.0	0.0	95.3	351.1
35.0	0.0	98.8	377.5	155.0	0.0	58.0	130.3	275.0	0.0	96.3	358.5
40.0	0.0	98.8	377.5	160.0	0.0	57.1	126.1	280.0	0.0	97.3	366.1
45.0	0.0	98.8	377.5	165.0	0.0	56.3	122.8	285.0	0.0	97.3	366.1
50.0	0.0	99.2	380.8	170.0	0.0	55.8	120.3	290.0	0.0	98.3	373.6
55.0	0.0	100.0	386.5	175.0	0.0	55.4	118.7	295.0	0.0	99.3	381.4
60.0	0.0	100.0	386.7	180.0	0.0	55.3	118.2	300.0	0.0	100.0	386.7
65.0	0.0	99.3	381.4	185.0	0.0	55.4	118.7	305.0	0.0	100.0	386.5
70.0	0.0	99.1	380.0	190.0	0.0	55.8	120.3	310.0	0.0	99.2	380.8
75.0	0.0	98.3	373.6	195.0	0.0	56.3	122.8	315.0	0.0	98.8	377.5
80.0	0.0	96.3	358.5	200.0	0.0	57.1	126.1	320.0	0.0	98.8	377.5
85.0	0.0	94.3	343.8	205.0	0.0	58.3	131.4	325.0	0.0	98.8	377.5
90.0	0.0	92.3	329.3	210.0	0.0	59.4	136.5	330.0	0.0	98.8	377.5
95.0	0.0	90.0	312.9	215.0	0.0	61.0	144.0	335.0	0.0	98.3	373.6
100.0	0.0	86.2	287.1	220.0	0.0	62.8	152.7	340.0	0.0	98.3	373.6
105.0	0.0	83.0	266.7	225.0	0.0	65.3	165.1	345.0	0.0	98.3	373.6
110.0	0.0	79.7	245.9	230.0	0.0	68.2	179.6	350.0	0.0	98.3	373.6
115.0	0.0	75.6	221.0	235.0	0.0	70.6	192.7	355.0	0.0	98.3	373.6