

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

EXHIBIT E-1

**ENGINEERING STATEMENT IN SUPPORT OF
APPLICATION FOR CONSTRUCTION PERMIT
TO DELETE SECTION 73.215 STATUS
WRIGHT COMMUNICATIONS, LLLP
CHANNEL 270C2, 43 KW-ERP, 161 MTRS AAT
ELDON, MISSOURI
FACILITY NUMBER: 168951**

NOVEMBER, 2007

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ELDON, MISSOURI
TO REMOVE SECTION 73.215 STATUS

ENGINEERING STATEMENT

EXHIBIT E1-1 FM Spacing Study

EXHIBIT E1-2 Vertical Sketch of Antenna System

EXHIBIT E1-3 Tabulation of Distances to Contours

EXHIBIT E1-4 Map Showing Proposed Service Contours

Certification of Engineer

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This Firm has been retained by Wright Communications, LLLP ("Wright") to prepare this Engineering Statement in support of its application for construction permit. The instant application proposes to modify the facilities of FM Broadcast Station KZWV, Eldon, Missouri from its present authorization under Section 73.215 of the Rules to a fully spaced authorization.

The recent grant of file number BMPH-20070614ADV, channel 269A, at Cuba, Missouri has rendered the presently authorized facility of Station KZWV fully spaced. By the instant From 301 application, Wright now seeks fully spaced status for Station KZWV.

ALLOCATION CONSIDERATIONS

The proposed transmitter site meets the minimum spacings under Section 73.207 of the Rules as shown in the FM spacing study of Exhibit E1-1.

PROPOSED TRANSMITTER SITE & ANTENNA SYSTEM

The system will employ an eight element, side mounted antenna employing one half wavelength spacing. A vertical sketch of the proposed tower and antenna system is attached hereto as Exhibit E1-2. The tower is the existing KZWV tower bearing ASR number 1007049. No changes will be made to the present facility other than installation of an omni directional antenna and an adjustment of transmitter power output to maintain the authorized effective radiated power.

PREDICTED COVERAGE CONTOURS

The distances to contours were calculated by a computer program maintained by this Firm which accurately emulates the F(50,50) 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.

The center of radiation of the antenna was calculated from the tower height and antenna data determined from the elevation data listed on Exhibit E1-2, 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 E1-2 were furnished by the tower owner.

A tabulation of the distances to the proposed service contours appears herein as Exhibit E1-3. 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 E1-4.

There is one FM broadcast station, one FM translator station and one television station 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 station 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 43 kilowatts effective radiated power in each plane, using an eight 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 are fenced to limit access to authorized personnel. Sufficient warning signs are posted in the area to warn casual visitors to the site of the potential for radiofrequency radiation exposure.

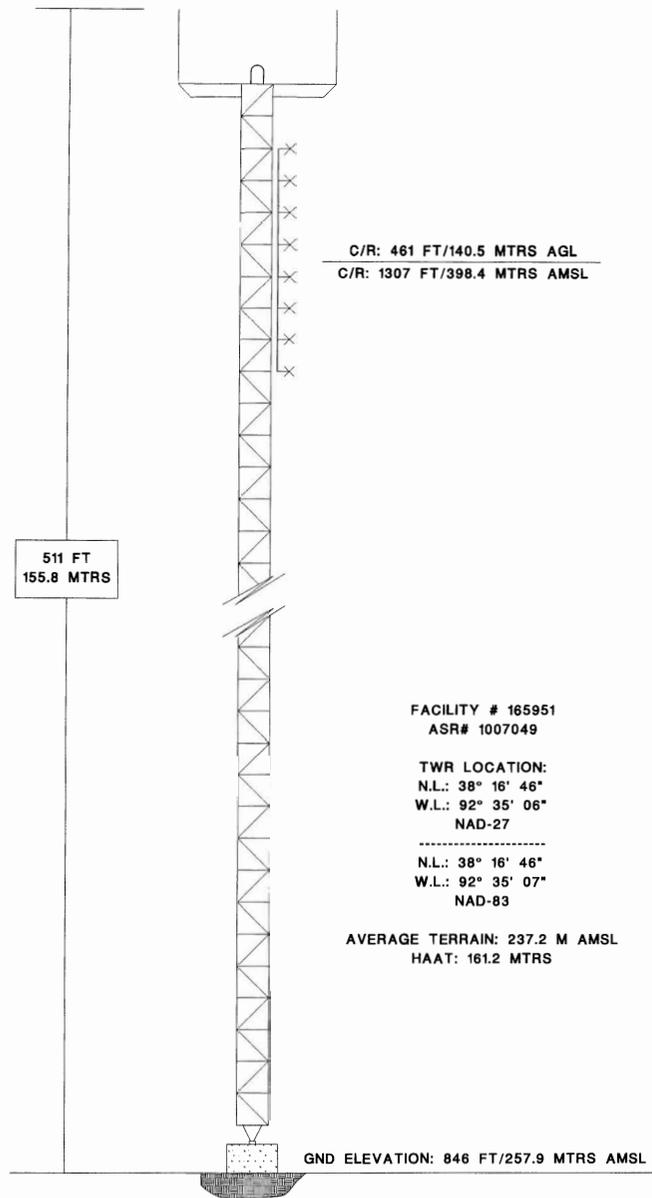
MAIN STUDIO LOCATION

The main studio will remain at its present location within the 70 dBu contour.

ENVIRONMENTAL MATTERS

The facility will be located on the existing KZWV 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.



PROJECT NO:	SELLMEYER ENGINEERING P.O. Box 356 McKinney, Texas 75070	
PREPARED: 20071105, JSS		
CHECKED:	EXHIBIT E1-2 VERTICAL SKETCH OF ANTENNA SYSTEM RADIO STATION KZVV CHAN. 270C2, 43 KW-ERP, 161 MTRS AAT ELDON, MISSOURI	
APPROVED:	REV:	DWG NO:
	DATE:	
		SHT: 1 OF: 1

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EXHIBIT E1-3
TABULATION OF DISTANCES TO CONTOURS
WRIGHT COMMUNICATIONS, LLLP
CHANNEL 270C2
ELDON, MISSOURI
FACILITY NUMBER: 165951

DISTANCES TO CONTOURS (Kilometers):

Frequency: 101.9 MHz Channel: 270C2

Coordinates: N.L.: 38° 16' 46"

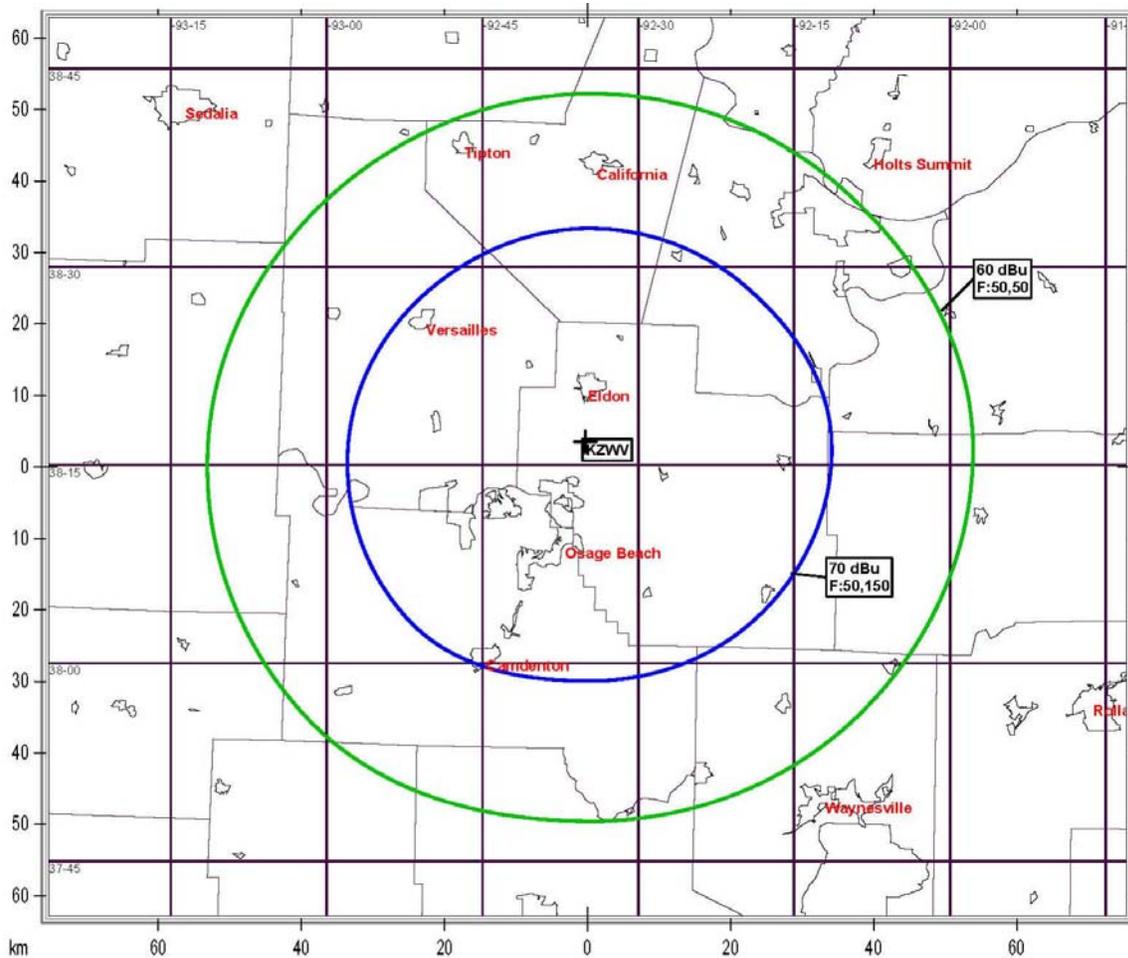
W.L.: 92° 35' 06"

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

<u>AZ</u> (degs)	<u>HAAT</u> (m)	<u>ERP</u> (kW)	<u>CONTOUR</u> 70.0	<u>LEVELS</u> (dBu): 60.0
.0	127	48.7	30.0	48.7
45.0	143	48.7	31.7	51.0
90.0	180	48.7	35.5	55.3
135.0	177	48.7	35.2	55.0
180.0	170	48.7	34.5	54.4
225.0	187	48.7	36.1	56.0
270.0	165	48.7	34.0	53.8
315.0	137	48.7	31.0	50.1

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EXHIBIT E1-4
MAP SHOWING CALCULATED SERVICE CONTOURS
WRIGHT COMMUNICATIONS, LLLP
CHANNEL 270C2
ELDON, MISSOURI
FACILITY NUMBER: 165951



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CERTIFICATION OF ENGINEER

I hereby state that:

I am President of Sellmeyer Engineering

The Firm of Sellmeyer Engineering has been retained by Wright Communications, LLLP 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.

November 7, 2007

P. O. Box 356
McKinney, Texas 75070
972-542-2056

