



ENVIRONMENTAL STATEMENT

The proposed facility complies in full with the requirements of 47 C.F.R. Section 1.1306 and will have no significant environmental impact. Population is very scattered and sparse near the immediate location of the proposed site. The proposed site does not involve any of the conditions specified in Section 1.1307(a)(1)-(6) of the Rules.

The proposed change in the facility has been studied in accordance with the procedures set forth in the FCC OET Bulletin No. 65 "Evaluating Compliance With FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields", Edition 97-01, and has been found to comply with the limits set forth in Section 1.1310 of the Rules. This determination has been based upon calculations with the total radiated power from all TV & FM co-located broadcast emitters. The total exposure as defined by the ANSI standard computations for occupational/controlled area is **0.19 %** of the maximum. The total exposure as defined by the ANSI standard computations for general population/uncontrolled area is **0.96 %** of the maximum. The proposed facility is in compliance with the Commission's guidelines.

Multiple Use FM/TV Tower						
Location:	KWKT CH47 Digital TV Waco, TX				6/30/2005	
Channel Frequency Type	Service	ERP (kW)	Ant Center of Radiation AG (m)	% of ANSI/FCC Limit (6min)	% of ANSI/FCC Limit (30 min)	
44- NTSC	TV UHF#1	4,587,000	509.70	0.15	0.75	
57 DTV	TV UHF#2	200,000	488.00	0.02	0.08	
88.1	FM #1	16,600	285.00	0.03	0.14	
Total			%	0.19	0.96	
IN COMPLIANCE						

The Applicant agrees to maintain full compliance with the safety precautions to workers on the tower (controlled) and the general public (uncontrolled) by reducing or removing radiated power during the time of construction or maintenance on or near the antenna. The Applicant also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from Radiofrequency Electromagnetic exposure in excess of FCC guidelines

This application would be considered a minor change, with no impact to the surrounding terrain, wildlife, or human environment.

The Applicant is believed to be in full compliance with the Environmental Impact and Commission Rules.

RF RADIATION TO HUMAN EXPOSURE CALCULATIONS UHF#1

Call letters **KWKT** Date: **6/30/2005**
 Lic City: **Waco, TX** (**UHF 300-1500 MHz**)
 Channel: **44- NTSC**

ANSI/IEEE C95.1-1992 & FCC OST/OET Bulletin Number 65

Peak Visual ERP: H+V **4,170,000 W**
 Aural ERP: H+V **417,000 W**
 DTV Average Pwr H+V **0 W**
Worst Case downward radiation: **1.00**
Typical relative field factor in the downward direction: **0.10**
 (from -60 to -90 degrees elevation)
 Distance from ground to antenna center of radiation: **509.7 m**

A. Occupational/Controlled Exposure

Highest power density: **2.68 $\mu\text{W}/\text{cm}^2$**
 Power Density at ground level: **0.0027 mW/cm^2**

ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier: **537.24 MHz**
 Required minimum ANSI standard: **1.7908 mW/cm^2**
 Percentage of ANSI requirement: **0.15 %**

B. General Population/Uncontrolled Exposure

Dist. of Person from ant/twr vert Plumb: **20 m**
 Dist. of Person from ant/twr Direct: **510.1 m**

Highest power density: **2.68 $\mu\text{W}/\text{cm}^2$**
 Power Density at ground level: **0.0027 mW/cm^2**

ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier: **537.24 MHz**
 Required minimum ANSI standard: **0.3582 mW/cm^2**
 Percentage of ANSI requirement: **0.75 %**

RF RADIATION TO HUMAN EXPOSURE CALCULATIONS UHF#2

Call letters **KWKT-DT** Date: **6/30/2005**
 Lic City: **Waco, TX** (**UHF 300-1500 MHz**)
 Channel: **57 DTV**

ANSI/IEEE C95.1-1992 & FCC OST/OET Bulletin Number 65

Peak Visual ERP: H+V **0 W**
Aural ERP: H+V **0 W**
DTV Average Pwr H+V **200,000 W**
Worst Case downward radiation: **1.00**
Typical relative field factor in the downward direction: **0.10**
 (from -60 to -90 degrees elevation)
 Distance from ground to antenna center of radiation: **488.0 m**

A. Occupational/Controlled Exposure

Highest power density: **0.28 $\mu\text{W}/\text{cm}^2$**
 Power Density at ground level: **0.0003 mW/cm^2**

ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier: **533 MHz**
 Required minimum ANSI standard: **1.7767 mW/cm^2**
 Percentage of ANSI requirement: **0.02 %**

B. General Population/Uncontrolled Exposure

Dist. of Person from ant/twr vert Plumb: **20 m**
 Dist. of Person from ant/twr Direct: **488.4 m**

Highest power density: **0.28 $\mu\text{W}/\text{cm}^2$**
 Power Density at ground level: **0.0003 mW/cm^2**

ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier: **533 MHz**
 Required minimum ANSI standard: **0.3553 mW/cm^2**
 Percentage of ANSI requirement: **0.08 %**

RF RADIATION TO HUMAN EXPOSURE CALCULATIONS FM #1

Call letters **KVLW** Date: **6/30/2005**
 Lic City: **Waco, TX** (**FM 30-300 MHz**)
 Channel: **201C1**
 Frequency **88.1** MHz

ANSI/IEEE C95.1-1992 & FCC OST/OET Bulletin Number 65

Aural ERP: Horizontal **16,600 W**
 Aural ERP: Vertical **W**
Worst Case downward radiation: **1.00**
Typical relative field factor in the downward direction: **0.20**
 (from -60 to -90 degrees elevation)
 Distance from ground to antenna center of radiation: **285.0 m**

A. Occupational/Controlled Exposure

Highest power density: **0.27 $\mu\text{W}/\text{cm}^2$**
 Power Density at ground level: **0.0003 mW/cm^2**

ANSI Maximum Radiation Limit for this Channel -

88.1 MHz
 Required minimum ANSI standard: **1.0 mW/cm^2**
 Percentage of ANSI requirement: **0.03 %**

B. General Population/Uncontrolled Exposure

Dist. of Person from ant/twr vert Plumb: **20 m**
 Dist. of Person from ant/twr Direct: **285.7 m**

Highest power density: **0.27 $\mu\text{W}/\text{cm}^2$**
 Power Density at ground level: **0.0003 mW/cm^2**

ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier: **88.1 MHz**
 Required minimum ANSI standard: **0.2 mW/cm^2**
 Percentage of ANSI requirement: **0.14 %**