

ENVIRONMENTAL STATEMENT

The proposed facility complies in full with the requirements of FCC RR Section 1.1307 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 be in full compliance. 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 **0.21 %** of the maximum. The total exposure as defined by the ANSI standard computations for general population/uncontrolled area is **1.05 %** of the maximum. The proposed facility is in compliance with the Commission's guidelines.

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.

Multiple Use FM/TV Tower

Location: **KNCT, Belton, TX** 3/13/03

Licensee Call Sign	Service	ERP (Watts)	Ant Center of Radiation AG (m)	% of ANSI/FCC Limit (6min)	% of ANSI/FCC Limit (30 min)
46NTSC	TV UHF#1	632,500	340.90	0.04	0.19
38DTV	TV UHF#2	200,000	308.00	0.03	0.17
91.3 MHz	FM #1	100,000	356.60	0.11	0.53
105.5 MHz	FM #2	68,000	131.00	0.03	0.17
Total %				0.21	1.05

IN COMPLIANCE

North Latitude **30° 59' 08"**
West Longitude **97° 37' 51"**

RFR Statement

Central Texas College

KNCT-DT CH38 Application for Modification to CP
HAAT 360 m ERP 200.0 kW

MARSAND, INC.

Professional Engineering Consultants
P.O. Box 485 * 6100 IH-35W * Alvarado, TX 76009

RF RADIATION TO HUMAN EXPOSURE CALCULATIONSCall letters: **KNCT**

Date:

3/10/03Location: **Belton, TX****(UHF 300-1500 MHz)**Channel: **46NTSC****ANSI/IEEE C95.1-1992 & FCC OST/OET Bulletin Number 65**

Peak Visual ERP:

575,000 W

Aural ERP:

57,500 W

DTV Average Pwr

0 W**Worst Case** downward radiation:**0.200****Typical relative field factor** in the downward direction:**0.100**

(from -60 to -90 degrees elevation)

Distance from ground to antenna center of radiation:

340.90 m**A. Occupational/Controlled Exposure**

	Actual	Worst Case
Highest power density:	0.8265 $\mu\text{W}/\text{cm}^2$	3.3061 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0008 mW/cm^2	0.0033 mW/cm^2

ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier:

663.25 MHz

Required minimum ANSI standard

2.2108 mW/cm^2

6 minutes Avg.

Percentage of ANSI requirement:

0.04 %

0.15 %

B. General Population/Uncontrolled Exposure

		Head Height
Dist. of Person from ant/twr vert Plumb:	20 m	20 m
Dist. of Person from ant/twr Direct:	340.9 m	
	Actual	Worst Case
Highest power density:	0.8265 $\mu\text{W}/\text{cm}^2$	3.3061 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0008 mW/cm^2	0.0033 mW/cm^2

ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier:

663.25 MHz

Required minimum ANSI standard

0.4422 mW/cm^2

30 minutes Avg.

Percentage of ANSI requirement:

0.19 %

0.75 %

North Latitude **30° 59' 08"**West Longitude **97° 37' 51"****RFR Calculations NTSC Ch 46****Central Texas College****MARSAND, INC.**

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Professional Engineering Consultants**HAAT 360 m ERP 200.0 kW**

P.O. Box 485 * 6100 IH-35W * Alvarado, TX 76009

RF RADIATION TO HUMAN EXPOSURE CALCULATIONSCall letters: **KNCT-DT**Date: **3/10/03**Location: **Belton, TX****(UHF 300-1500 MHz)**Channel: **38DTV****ANSI/IEEE C95.1-1992 & FCC OST/OET Bulletin Number 65**

Peak Visual ERP:

0 W

Aural ERP:

0 W

DTV Average Pwr

200,000 W**Worst Case** downward radiation:**0.200****Typical relative field factor** in the downward direction:**0.100**

(from -60 to -90 degrees elevation)

Distance from ground to antenna center of radiation:

308.00 m**A. Occupational/Controlled Exposure**

	Actual	Worst Case
Highest power density:	0.7044 $\mu\text{W}/\text{cm}^2$	2.8175 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0007 mW/cm²	0.0028 mW/cm ²

ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier:	620 MHz	
Required minimum ANSI standard	2.0667 mW/cm²	6 minutes Avg.
Percentage of ANSI requirement:	0.03 %	0.14 %

B. General Population/Uncontrolled Exposure

		Head Height
Dist. of Person from ant/twr vert Plumb:	20 m	20 m
Dist. of Person from ant/twr Direct:	308.0 m	
	Actual	Worst Case
Highest power density:	0.7044 $\mu\text{W}/\text{cm}^2$	2.8175 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0007 mW/cm²	0.0028 mW/cm ²

ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier:	620 MHz	
Required minimum ANSI standard	0.4133 mW/cm²	30 minutes Avg.
Percentage of ANSI requirement:	0.17 %	0.68 %

North Latitude **30° 59' 08"**West Longitude **97° 37' 51"****RFR Calculations DTV Channel****Central Texas College****MARSAND, INC.**

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RF RADIATION TO HUMAN EXPOSURE CALCULATIONS FM #1

Call letters: **KNCT-FM**

Date: **3/10/03**

Location: **Killeen, TX** **(FM 30-300 MHz)**

Channel: **91.3 MHz**

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

Aural ERP: Horizontal **50,000 W**

Aural ERP: Vertical **50,000 W**

Worst Case downward radiation: **0.300**

Typical relative field factor in the downward direction:
(from -60 to -90 degrees elevation) **0.200**

Distance from ground to antenna center of radiation: **356.60 m**

A. Occupational/Controlled Exposure

	Actual	Worst Case
Highest power density:	1.0509 $\mu\text{W}/\text{cm}^2$	2.3646 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0011 mW/cm^2	0.0024 mW/cm^2

ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier:	91.3 MHz	
Required minimum ANSI standard:	1.0 mW/cm^2	6 minutes Avg.
Percentage of ANSI requirement:	0.11 %	0.24 %

B. General Population/Uncontrolled Exposure

		Head Height
Dist. of Person from ant/twr vert Plumb:	20 m	20 m
Dist. of Person from ant/twr Direct:	356.6 m	

	Actual	Worst Case
Highest power density:	1.0509 $\mu\text{W}/\text{cm}^2$	2.3646 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0011 mW/cm^2	0.0024 mW/cm^2

ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier:	91.3 MHz	
Required minimum ANSI standard:	0.2 mW/cm^2	30 minutes Avg.
Percentage of ANSI requirement:	0.53 %	1.18 %

North Latitude **30° 59' 08"**
West Longitude **97° 37' 51"**

RFR Calculations FM 91.3 MHz

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RF RADIATION TO HUMAN EXPOSURE CALCULATIONS FM #2Call letters: **KYUL-FM**Date: **3/10/03**Location: **Harker Heights, TX (FM 30-300 MHz)**Channel: **105.5 MHz****ANSI/IEEE C95.1-1992 & FCC OST/OET Bulletin Number 65**Aural ERP: Horizontal **34,000 W**Aural ERP: Vertical **34,000 W****Worst Case** downward radiation: **0.100****Typical relative field factor** in the downward direction:
(from -60 to -90 degrees elevation) **0.050**Distance from ground to antenna center of radiation: **131.00 m****A. Occupational/Controlled Exposure**

	Actual	Worst Case
Highest power density:	0.3310 $\mu\text{W}/\text{cm}^2$	1.3239 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0003 mW/cm^2	0.0013 mW/cm^2

ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier:	105.5 MHz	
Required minimum ANSI standard:	1.0 mW/cm^2	6 minutes Avg.
Percentage of ANSI requirement:	0.03 %	0.13 %

B. General Population/Uncontrolled Exposure

		Head Height
Dist. of Person from ant/twr vert Plumb:	20 m	20 m
Dist. of Person from ant/twr Direct:	131.0 m	

	Actual	Worst Case
Highest power density:	0.3310 $\mu\text{W}/\text{cm}^2$	1.3239 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0003 mW/cm^2	0.0013 mW/cm^2

ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier:	105.5 MHz	
Required minimum ANSI standard:	0.2 mW/cm^2	30 minutes Avg.
Percentage of ANSI requirement:	0.17 %	0.66 %

North Latitude **30° 59' 08"**
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RFR Calculations FM 105.5 MHz**Central Texas College**

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