MARSAND, INC.
Matthew A. Sanderford, Jr., P.E.

ENVIRONMENTAL STATEMENT

The proposed change in the facility complies in full with the requirements of FCC RR Section 1.1307 and will have no significant environmental impact. 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 co-located broadcast emitters. The total exposure as defined by the ANSI standard computations for occupational/controlled area is **12.5%** of the maximum allowable. The total exposure as defined by the ANSI standard computations for general population/uncontrolled area is **52.57%** of the maximum allowable levels. Summary sheets are attached showing the calculations. All FM & TV stations are included for the site.

Multiple Use FM/TV Tower

Location: **KCOS-DT CH13A El Paso, TX** Date: 4/14/2008

Channel Frequency Type	Service	ERP (W)	Ant Center of Radiation AG (m)	% of ANSI/FCC Limit (6min)	% of ANSI/FCC Limit (30 min)
13A	TV VHF#1	4,500	79.00	0.10	0.45
48+N	ULPTV #1	165,000	25.90	1.66	5.73
88.5FM	FM #1	200,000	50.00	10.69	46.08
88.5FS	FM #2	920	42.70	0.07	0.30
Total			**%**	**12.51**	**52.57**

IN COMPLIANCE

KCOS-DT 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. KCOS-DT 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. Access to the site is controlled with a locked gate with RF radiation exposure warning signs posted on the gate as well as the entrance to the building and tower. The site is located on a mountain ridge with steep slopes and rugged terrain. The tower is existing, and the proposed antenna modifications involve replacing "like for like".

KCOS-DT is believed to be in full compliance with the Environmental Impact and Commission Rules.

RF RADIATION TO HUMAN EXPOSURE CALCULATIONS #1

Call letters **KCOS-DT** Date: **4/14/2008**
Lic City: **El Paso, TX** **(VF 30-300 MHz)**
Channel: **13A**

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

Total Peak Visual ERP:	H+V	**0**	**W**
Aural ERP:	H+V	**0**	**W**
DTV Average Power	H+V	**4,500**	**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:		**79.0**	**m**

A. Occupational/Controlled Exposure

	Actual	
Highest power density:	**0.96**	**µW/cm²**
Power Density at ground level:	**0.0010**	**mW/cm²**

ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier:	**213**	**MHz**
Required minimum ANSI standard:	**1.0**	**mW/cm²**
Percentage of ANSI requirement:	**0.10**	**%**

B. General Population/Uncontrolled Exposure

Dist. of Person from ant/twr vert Plumb:	**20**	**m**
Dist. of Person from ant/twr Direct:	**81.5**	**m**

	Actual	
Highest power density:	**0.91**	**µW/cm²**
Power Density at ground level:	**0.0009**	**mW/cm²**

ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier:	**213**	**MHz**
Required minimum ANSI standard:	**0.2**	**mW/cm²**
Percentage of ANSI requirement:	**0.45**	**%**

RF RADIATION TO HUMAN EXPOSURE CALCULATIONS LPTV-UHF #1

Call letters **K48IK** Date: **4/14/2008**
Lic City: **El Paso, TX** **(UHF 300-1500 MHz)**
Channel: **48+N**

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

Peak Visual ERP:	H+V	**150,000**	**W**
Aural ERP:	H+V	**15,000**	**W**
DTV Average Pwr	H+V	**0**	**W**
Worst Case downward radiation:		**0.20**	
Typical relative field factor in the downward direction:		**0.10**	
(from -60 to -90 degrees elevation)			
Distance from ground to antenna center of radiation:		**25.9**	**m**

A. Occupational/Controlled Exposure

	Actual		Worst Case	
Highest power density:	**37.35**	**µW/cm²**	149.42	µW/cm²
Power Density at ground level:	**0.0374**	**mW/cm²**	0.1494	mW/cm²

ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier:	**675.26**	**MHz**	
Required minimum ANSI standard:	**2.2509**	**mW/cm²**	6 minutes Avg.
Percentage of ANSI requirement:	**1.66**	**%**	6.64 %

B. General Population/Uncontrolled Exposure

			Head Height	
Dist. of Person from ant/twr vert Plumb:	**20**	**m**	**2**	m
Dist. of Person from ant/twr Direct:	**31.2**	**m**		

	Actual		Worst Case	
Highest power density:	**25.80**	**µW/cm²**	103.20	µW/cm²
Power Density at ground level:	**0.0258**	**mW/cm²**	0.1032	mW/cm²

ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier:	**675.26**	**MHz**	
Required minimum ANSI standard:	**0.4502**	**mW/cm²**	30 minutes Avg.
Percentage of ANSI requirement:	**5.73**	**%**	22.92 %

RF RADIATION TO HUMAN EXPOSURE CALCULATIONS FM #1

Call letters **KTEP** Date: **4/14/2008**
Lic City: **El Paso, TX** **(FM 30-300 MHz)**
Channel: **203C1**
Frequency **88.5FM** MHz

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

Aural ERP:	Horizontal	**100,000**	**W**
Aural ERP:	Vertical	**100,000**	**W**
Worst Case downward radiation:		**0.30**	
Typical relative field factor in the downward direction:		**0.20**	
(from -60 to -90 degrees elevation)			
Distance from ground to antenna center of radiation:		**50.0**	**m**

A. Occupational/Controlled Exposure

	Actual	
Highest power density:	**106.91**	**µW/cm²**
Power Density at ground level:	**0.1069**	**mW/cm²**

ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier:	**88.5**	**MHz**
Required minimum ANSI standard:	**1.0**	**mW/cm²**
Percentage of ANSI requirement:	**10.69**	**%**

B. General Population/Uncontrolled Exposure

Dist. of Person from ant/twr vert Plumb:	**20**	**m**
Dist. of Person from ant/twr Direct:	**53.9**	**m**
	Actual	
Highest power density:	**92.16**	**µW/cm²**
Power Density at ground level:	**0.0922**	**mW/cm²**

ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier:	**88.5**	**MHz**
Required minimum ANSI standard:	**0.2**	**mW/cm²**
Percentage of ANSI requirement:	**46.08**	**%**

RF RADIATION TO HUMAN EXPOSURE CALCULATIONS FM #2

Call letters **KTEP** Date: **4/14/2008**
Lic City: **El Paso, TX** **(FM 30-300 MHz)**
Channel: **203**
Frequency **88.5FS** MHz

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

Aural ERP:	Horizontal	**920 W**
Aural ERP:	Vertical	**0 W**
Worst Case downward radiation:		**0.30**
Typical relative field factor in the downward direction: (from -60 to -90 degrees elevation)		**0.20**
Distance from ground to antenna center of radiation:		**42.7 m**

A. Occupational/Controlled Exposure

	Actual	Worst Case
Highest power density:	**0.67 µW/cm²**	**1.52 µW/cm²**
Power Density at ground level:	**0.0007 mW/cm²**	**0.0015 mW/cm²**

ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier:	**88.5 MHz**	
Required minimum ANSI standard:	**1.0 mW/cm²**	**6 minutes Avg.**
Percentage of ANSI requirement:	**0.07 %**	**0.15 %**

B. General Population/Uncontrolled Exposure

		Head Height
Dist. of Person from ant/twr vert Plumb:	**20 m**	**2 m**
Dist. of Person from ant/twr Direct:	**45.3 m**	

	Actual	Worst Case
Highest power density:	**0.60 µW/cm²**	**1.35 µW/cm²**
Power Density at ground level:	**0.0006 mW/cm²**	**0.0013 mW/cm²**

ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier:	**88.5 MHz**	
Required minimum ANSI standard:	**0.2 mW/cm²**	**30 minutes Avg.**
Percentage of ANSI requirement:	**0.30 %**	**0.67 %**