

## 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, which is also in an antenna farm. 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 **0.01 %** of the maximum. The total exposure as defined by the ANSI standard computations for general population/uncontrolled area is **0.11 %** of the maximum. The proposed facility is in compliance with the Commission's guidelines.

<b>Multiple Use FM/TV Tower</b>						
Location:	<b>KLNM-LP</b>	<b>CH42 Lufkin, TX</b>	12/16/2003			
Channel Frequency Type	Service	ERP (W)	Ant Center Of Radiation AG (m)	% of ANSI/FCC Limit (6min)	% of ANSI/FCC Limit (30) min	
42	TV UHF#1	7,150	152.40	0.00	0.01	
30	TV UHF#2	21,890	135.60	0.01	0.05	
96.3	FM #1	2,700	187.00	0.01	0.05	
<b>Total %</b>				<b>0.02</b>	<b>0.11</b>	
<b>IN COMPLIANCE</b>						

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 <b>KLNM-LP</b>	Date:	<b>12/16/2003</b>
Lic City: <b>Lufkin, TX</b>	<b><u>(UHF 300-1500 MHz)</u></b>	
Channel: 42		

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

Peak Visual ERP: H+V	<b>6,500 W</b>
Aural ERP: H+V	650 W
DTV Average Pwr H+V	<b>0 W</b>
<b>Worst Case</b> downward radiation:	<b>0.20</b>
<b>Typical relative field factor</b> in the downward direction: (from -60 to -90 degrees elevation)	0.10
Distance from ground to antenna center of radiation:	<b>152.4 m</b>

**A. Occupational/Controlled Exposure**

	Actual	Worst Case
Highest power density:	<b>0.05 <math>\mu\text{W}/\text{cm}^2</math></b>	0.19 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	<b>0.0000 <math>\text{mW}/\text{cm}^2</math></b>	0.0002 $\text{mW}/\text{cm}^2$

ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier:	<b>641 MHz</b>	
Required minimum ANSI standard:	<b>2.1367 <math>\text{mW}/\text{cm}^2</math></b>	6 minutes Avg.
Percentage of ANSI requirement:	0.00 %	0.01 %

**B. General Population/Uncontrolled Exposure**

		Head Height
Dist. of Person from ant/twr vert Plumb:	<b>20 m</b>	<b>2 m</b>
Dist. of Person from ant/twr Direct:	<b>151.7 m</b>	
	Actual	Worst Case
Highest power density:	<b>0.05 <math>\mu\text{W}/\text{cm}^2</math></b>	0.19 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	<b>0.0000 <math>\text{mW}/\text{cm}^2</math></b>	0.0002 $\text{mW}/\text{cm}^2$

ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier:	<b>641 MHz</b>	
Required minimum ANSI standard:	<b>0.4273 <math>\text{mW}/\text{cm}^2</math></b>	30 minutes Avg.
Percentage of ANSI requirement:	0.01 %	0.04 %

## RF RADIATION TO HUMAN EXPOSURE CALCULATIONS UHF#2

Call letters **KFXL-LP**  
Lic City: **Lufkin, TX**  
Channel: 30

Date: **12/16/2003**  
(UHF 300-1500 MHz)

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

Peak Visual ERP: H+V	<b>19,900 W</b>
Aural ERP: H+V	<b>1,990 W</b>
DTV Average Pwr H+V	<b>0 W</b>
<b>Worst Case</b> downward radiation:	<b>0.20</b>
<b>Typical relative field factor</b> in the downward direction: (from -60 to -90 degrees elevation)	<b>0.10</b>
Distance from ground to antenna center of radiation:	<b>135.6 m</b>

### **A. Occupational/Controlled Exposure**

	Actual	Worst Case
Highest power density:	<b>0.18 <math>\mu\text{W}/\text{cm}^2</math></b>	0.72 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	<b>0.0002 mW/cm<sup>2</sup></b>	0.0007 mW/cm <sup>2</sup>

ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier:	<b>569 MHz</b>	
Required minimum ANSI standard:	<b>1.8967 mW/cm<sup>2</sup></b>	6 minutes Avg.
Percentage of ANSI requirement:	<b>0.01 %</b>	0.04 %

### **B. General Population/Uncontrolled Exposure**

	Actual	Worst Case
Dist. of Person from ant/twr vert Plumb:	<b>20 m</b>	Head Height <b>2 m</b>
Dist. of Person from ant/twr Direct:	<b>135.1 m</b>	
Highest power density:	<b>0.18 <math>\mu\text{W}/\text{cm}^2</math></b>	0.73 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	<b>0.0002 mW/cm<sup>2</sup></b>	0.0007 mW/cm <sup>2</sup>

ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier:	<b>569 MHz</b>	
Required minimum ANSI standard:	<b>0.3793 mW/cm<sup>2</sup></b>	30 minutes Avg.
Percentage of ANSI requirement:	<b>0.05 %</b>	0.19 %

## RF RADIATION TO HUMAN EXPOSURE CALCULATIONS FM #1

Call letters **KLSN** Date: #####  
Lic City: **Hudson, TX** (**FM 30-300 MHz**)  
Channel: **242**  
Frequency **96.3** MHz

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

Aural ERP: Horizontal **1,350 W**  
Aural ERP: Vertical **1,350 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: **187.0 m**

### **A. Occupational/Controlled Exposure**

	Actual	Worst Case
Highest power density:	<b>0.10 <math>\mu\text{W}/\text{cm}^2</math></b>	<b>0.23 <math>\mu\text{W}/\text{cm}^2</math></b>
Power Density at ground level:	<b>0.0001 <math>\text{mW}/\text{cm}^2</math></b>	<b>0.0002 <math>\text{mW}/\text{cm}^2</math></b>

### ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier:	<b>96.3 MHz</b>	
Required minimum ANSI standard:	<b>1.0 <math>\text{mW}/\text{cm}^2</math></b>	<b>6 minutes Avg.</b>
Percentage of ANSI requirement:	<b>0.01 %</b>	<b>0.02 %</b>

### **B. General Population/Uncontrolled Exposure**

	Actual	Worst Case
Dist. of Person from ant/twr vert Plumb:	<b>20 m</b>	<b>2 m</b>
Dist. of Person from ant/twr Direct:	<b>186.1 m</b>	
Highest power density:	<b>0.10 <math>\mu\text{W}/\text{cm}^2</math></b>	<b>0.23 <math>\mu\text{W}/\text{cm}^2</math></b>
Power Density at ground level:	<b>0.0001 <math>\text{mW}/\text{cm}^2</math></b>	<b>0.0002 <math>\text{mW}/\text{cm}^2</math></b>

### ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier:	<b>96.3 MHz</b>	
Required minimum ANSI standard:	<b>0.2 <math>\text{mW}/\text{cm}^2</math></b>	<b>30 minutes Avg.</b>
Percentage of ANSI requirement:	<b>0.05 %</b>	<b>0.12 %</b>