



RADIO FREQUENCY RADIATION COMPLIANCE STATEMENT

The Licensed facility, KKXT-FM, 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. The total exposure due to radiation from the licensed facility as defined by the ANSI standard computations for general population/uncontrolled area is **0.04 %** of the maximum. Since this is less than 5% of the Commission’s power density limit, the Licensee is categorically excluded from having to take action to correct for emissions exceeding the guidelines in a site with multiple fixed transmitters. The total radiated power from all TV & FM, full and low power, co-located broadcast emitters were also considered. A summary of the results is tabulated below, and the individual calculations can be found in the following pages.

Multiple Use FM/TV Tower							
Location:		KKXT-FM 219C0 Dallas, TX				3/7/2021	
Channel Frequency Type	Call Letters	Service	ERP (W) H+V	Ant Center of Radiation AG (m)	% of ANSI/FCC Limit (6min)	% of ANSI/FCC Limit (30 min)	
3	KODF-LP	TV VHF#1	2,500	183.60	0.01	0.05	
2	KSFV-LD	TV VHF#2	3,000	457.20	0.00	0.01	
6	KZFW-LP	TV VHF#3	3,000	440.00	0.00	0.01	
26	K26KC	ULPTV #1	4,450	250.00	0.01	0.05	
90.1	KERA	FM #1	60,000	514.80	0.07	0.34	
91.7	KKXT-FM	FM #2	39,000	514.80	0.04	0.22	
97.9	KBFB-FM	FM #3	200,000	515.00	0.23	1.14	
100.3	KJJK-FM	FM #4	200,000	514.80	0.23	1.14	
107.5	KMVK-FM	FM #5	34,000	514.80	0.04	0.19	
105.3	KRLD-FM	FM #6	200,000	514.80	0.23	1.14	
Total %					0.86	4.31	
IN COMPLIANCE							

The Licensee 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 Licensee also certifies that it, in coordination with other users of the site, will continue to post RF exposure warning signs and 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.

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

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

David Sanderford

David Sanderford
MARSAND, INC. – VP

RF RADIATION TO HUMAN EXPOSURE CALCULATIONS FM #6

Call letters: **KRLD-FM**

Date: **3/7/2021**

Lic City: **Dallas, TX** (**FM 30-300 MHz**)

Channel: **287C**

Frequency: **105.3** 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: **0.30**

(from -60 to -90 degrees elevation)

Distance from ground to antenna center of radiation: **514.8 m**

A. Occupational/Controlled Exposure

	Actual	Worst Case
Highest power density:	2.27 $\mu\text{W}/\text{cm}^2$	2.27 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0023 mW/cm²	0.0023 mW/cm²

ANSI Maximum Radiation Limit for this Channel -

Frequency of Carrier:	105.3 MHz	
Required minimum ANSI standard:	1.0 mW/cm²	6 minutes Avg.
Percentage of ANSI requirement:	0.23 %	0.23 %

B. General Population/Uncontrolled Exposure

	Actual	Worst Case	Head Height
Dist. of Person from ant/twr vert Plumb:	20 m		2 m
Dist. of Person from ant/twr Direct:	513.2 m		
Highest power density:	2.28 $\mu\text{W}/\text{cm}^2$	2.28 $\mu\text{W}/\text{cm}^2$	
Power Density at ground level:	0.0023 mW/cm²	0.0023 mW/cm²	

ANSI Maximum Radiation Limit for this Channel -

Frequency of Carrier:	105.3 MHz	
Required minimum ANSI standard:	0.2 mW/cm²	30 minutes Avg.
Percentage of ANSI requirement:	1.14 %	1.14 %

RF RADIATION TO HUMAN EXPOSURE CALCULATIONS FM #5

Call letters: **KMVK-FM**

Date: **3/7/2021**

Lic City: **Dallas, TX** (**FM 30-300 MHz**)

Channel: **298C1**

Frequency: **107.5** MHz

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

Aural ERP: Horizontal **17,000 W**

Aural ERP: Vertical **17,000 W**

Worst Case downward radiation: **0.30**

Typical relative field factor in the downward direction: **0.30**

(from -60 to -90 degrees elevation)

Distance from ground to antenna center of radiation: **514.8 m**

A. Occupational/Controlled Exposure

	Actual	Worst Case
Highest power density:	0.39 $\mu\text{W}/\text{cm}^2$	0.39 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0004 mW/cm²	0.0004 mW/cm²

ANSI Maximum Radiation Limit for this Channel -

Frequency of Carrier:	107.5 MHz	
Required minimum ANSI standard:	1.0 mW/cm²	6 minutes Avg.
Percentage of ANSI requirement:	0.04 %	0.04 %

B. General Population/Uncontrolled Exposure

	Actual	Worst Case	Head Height
Dist. of Person from ant/twr vert Plumb:	20 m		2 m
Dist. of Person from ant/twr Direct:	513.2 m		
Highest power density:	0.39 $\mu\text{W}/\text{cm}^2$	0.39 $\mu\text{W}/\text{cm}^2$	
Power Density at ground level:	0.0004 mW/cm²	0.0004 mW/cm²	

ANSI Maximum Radiation Limit for this Channel -

Frequency of Carrier:	107.5 MHz	
Required minimum ANSI standard:	0.2 mW/cm²	30 minutes Avg.
Percentage of ANSI requirement:	0.19 %	0.19 %

RF RADIATION TO HUMAN EXPOSURE CALCULATIONS FM #4

Call letters: **KJKK-FM**

Date: **3/7/2021**

Lic City: **Dallas, TX** (**FM 30-300 MHz**)

Channel: **262C**

Frequency: **100.3** 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: **0.30**
(from -60 to -90 degrees elevation)

Distance from ground to antenna center of radiation: **514.8 m**

A. Occupational/Controlled Exposure

	Actual	Worst Case
Highest power density:	2.27 $\mu\text{W}/\text{cm}^2$	2.27 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0023 mW/cm²	0.0023 mW/cm²

ANSI Maximum Radiation Limit for this Channel -

Frequency of Carrier:	100.3 MHz	
Required minimum ANSI standard:	1.0 mW/cm²	6 minutes Avg.
Percentage of ANSI requirement:	0.23 %	0.23 %

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:	513.2 m	

	Actual	Worst Case
Highest power density:	2.28 $\mu\text{W}/\text{cm}^2$	2.28 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0023 mW/cm²	0.0023 mW/cm²

ANSI Maximum Radiation Limit for this Channel -

Frequency of Carrier:	100.3 MHz	
Required minimum ANSI standard:	0.2 mW/cm²	30 minutes Avg.
Percentage of ANSI requirement:	1.14 %	1.14 %

RF RADIATION TO HUMAN EXPOSURE CALCULATIONS FM #3

Call letters: **KBFB-FM**

Date: **3/7/2021**

Lic City: **Dallas, TX** (**FM 30-300 MHz**)

Channel: **250C**

Frequency: **97.9** 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:
(from -60 to -90 degrees elevation) **0.30**

Distance from ground to antenna center of radiation: **515.0 m**

A. Occupational/Controlled Exposure

	Actual	Worst Case
Highest power density:	2.27 $\mu\text{W}/\text{cm}^2$	2.27 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0023 mW/cm^2	0.0023 mW/cm^2

ANSI Maximum Radiation Limit for this Channel -

Frequency of Carrier:	97.9 MHz	
Required minimum ANSI standard:	1.0 mW/cm^2	6 minutes Avg.
Percentage of ANSI requirement:	0.23 %	0.23 %

B. General Population/Uncontrolled Exposure

	Actual	Worst Case
Dist. of Person from ant/twr vert Plumb:	20 m	Head Height 2 m
Dist. of Person from ant/twr Direct:	513.4 m	
Highest power density:	2.28 $\mu\text{W}/\text{cm}^2$	2.28 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0023 mW/cm^2	0.0023 mW/cm^2

ANSI Maximum Radiation Limit for this Channel -

Frequency of Carrier:	97.9 MHz	
Required minimum ANSI standard:	0.2 mW/cm^2	30 minutes Avg.
Percentage of ANSI requirement:	1.14 %	1.14 %

RF RADIATION TO HUMAN EXPOSURE CALCULATIONS FM #2

Call letters: **KKXT-FM**

Date: **3/7/2021**

Lic City: **Dallas, TX** (**FM 30-300 MHz**)

Channel: **219C0**

Frequency: **91.7** MHz

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

Aural ERP: Horizontal **19,500 W**

Aural ERP: Vertical **19,500 W**

Worst Case downward radiation: **0.30**

Typical relative field factor in the downward direction: **0.30**
(from -60 to -90 degrees elevation)

Distance from ground to antenna center of radiation: **514.8 m**

A. Occupational/Controlled Exposure

	Actual	Worst Case
Highest power density:	0.44 $\mu\text{W}/\text{cm}^2$	0.44 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0004 mW/cm²	0.0004 mW/cm²

ANSI Maximum Radiation Limit for this Channel -

Frequency of Carrier:	91.7 MHz	
Required minimum ANSI standard:	1.0 mW/cm²	6 minutes Avg.
Percentage of ANSI requirement:	0.04 %	0.04 %

B. General Population/Uncontrolled Exposure

	Actual	Worst Case
Dist. of Person from ant/twr vert Plumb:	20 m	Head Height 2 m
Dist. of Person from ant/twr Direct:	513.2 m	
Highest power density:	0.45 $\mu\text{W}/\text{cm}^2$	0.45 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0004 mW/cm²	0.0004 mW/cm²

ANSI Maximum Radiation Limit for this Channel -

Frequency of Carrier:	91.7 MHz	
Required minimum ANSI standard:	0.2 mW/cm²	30 minutes Avg.
Percentage of ANSI requirement:	0.22 %	0.22 %

RF RADIATION TO HUMAN EXPOSURE CALCULATIONS FM #1

Call letters: **KERA**

Date: **3/7/2021**

Lic City: **Dallas, TX** (**FM 30-300 MHz**)

Channel: **211C0**

Frequency: **90.1** MHz

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

Aural ERP: Horizontal **30,000 W**

Aural ERP: Vertical **30,000 W**

Worst Case downward radiation: **0.30**

Typical relative field factor in the downward direction: **0.30**
(from -60 to -90 degrees elevation)

Distance from ground to antenna center of radiation: **514.8 m**

A. Occupational/Controlled Exposure

	Actual	Worst Case
Highest power density:	0.68 $\mu\text{W}/\text{cm}^2$	0.68 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0007 mW/cm²	0.0007 mW/cm²

ANSI Maximum Radiation Limit for this Channel -

Frequency of Carrier:	90.1 MHz	
Required minimum ANSI standard:	1.0 mW/cm²	6 minutes Avg.
Percentage of ANSI requirement:	0.07 %	0.07 %

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:	513.2 m	

	Actual	Worst Case
Highest power density:	0.69 $\mu\text{W}/\text{cm}^2$	0.69 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0007 mW/cm²	0.0007 mW/cm²

ANSI Maximum Radiation Limit for this Channel -

Frequency of Carrier:	90.1 MHz	
Required minimum ANSI standard:	0.2 mW/cm²	30 minutes Avg.
Percentage of ANSI requirement:	0.34 %	0.34 %

RF RADIATION TO HUMAN EXPOSURE CALCULATIONS LPTV-UHF #1

Call letters: **K26KC** Date: **3/7/2021**
 Lic City: **Dallas, TX** (**UHF 300-1500 MHz**)
 Channel: **26**

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 **4,450 W**
Worst Case downward radiation: **0.30**
Typical relative field factor in the downward direction: **0.28**
 (from -60 to -90 degrees elevation)
 Distance from ground to antenna center of radiation: **250.0 m**

A. Occupational/Controlled Exposure

	Actual	Worst Case
Highest power density:	0.19 $\mu\text{W}/\text{cm}^2$	0.21 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0002 mW/cm²	0.0002 mW/cm ²

ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier:	545 MHz	
Required minimum ANSI standard:	1.8167 mW/cm²	6 minutes Avg.
Percentage of ANSI requirement:	0.01 %	0.01 %

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:	248.8 m	
	Actual	Worst Case
Highest power density:	0.19 $\mu\text{W}/\text{cm}^2$	0.22 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0002 mW/cm²	0.0002 mW/cm ²

ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier:	545 MHz	
Required minimum ANSI standard:	0.3633 mW/cm²	30 minutes Avg.
Percentage of ANSI requirement:	0.05 %	0.06 %

RF RADIATION TO HUMAN EXPOSURE CALCULATIONS #2

Call letters: **KZFW-LP** Date: **3/7/2021**
 Lic City: **Dallas, TX** (**VF 30-300 MHz**)
 Channel: **6**

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 **3,000 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: **440.0 m**

A. Occupational/Controlled Exposure

	Actual	Worst Case
Highest power density:	0.02 $\mu\text{W}/\text{cm}^2$	0.00 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0000 mW/cm²	0.0000 mW/cm²

ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier:	85 MHz	
Required minimum ANSI standard:	1.0 mW/cm²	6 minutes Avg.
Percentage of ANSI requirement:	0.00 %	0.00 %

B. General Population/Uncontrolled Exposure

	Actual	Worst Case
Dist. of Person from ant/twr vert Plumb:	20 m	2 m
Dist. of Person from ant/twr Direct:	438.5 m	
Highest power density:	0.02 $\mu\text{W}/\text{cm}^2$	0.00 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0000 mW/cm²	0.0000 mW/cm²

ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier:	85 MHz	
Required minimum ANSI standard:	0.2 mW/cm²	30 minutes Avg.
Percentage of ANSI requirement:	0.01 %	0.00 %

RF RADIATION TO HUMAN EXPOSURE CALCULATIONS #2

Call letters: **KSFW-LD** Date: **3/7/2021**
 Lic City: **Dallas, TX** (**VF 30-300 MHz**)
 Channel: **2**

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 **3,000 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: **457.2 m**

A. Occupational/Controlled Exposure

	Actual	Worst Case
Highest power density:	0.02 $\mu\text{W}/\text{cm}^2$	0.00 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0000 mW/cm²	0.0000 mW/cm²

ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier:	57 MHz	
Required minimum ANSI standard:	1.0 mW/cm²	6 minutes Avg.
Percentage of ANSI requirement:	0.00 %	0.00 %

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:	455.6 m	
	Actual	Worst Case
Highest power density:	0.02 $\mu\text{W}/\text{cm}^2$	0.00 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0000 mW/cm²	0.0000 mW/cm²

ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier:	57 MHz	
Required minimum ANSI standard:	0.2 mW/cm²	30 minutes Avg.
Percentage of ANSI requirement:	0.01 %	0.00 %

RF RADIATION TO HUMAN EXPOSURE CALCULATIONS #1

Call letters: **KODF-LP**
 Lic City: **Dallas, TX**
 Channel: **3**

Date: **3/7/2021**
(VF 30-300 MHz)

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	2,500 W
Worst Case downward radiation:		1.00
Typical relative field factor in the downward direction: (from -60 to -90 degrees elevation)		0.20
Distance from ground to antenna center of radiation:		183.6 m

A. Occupational/Controlled Exposure

	Actual	Worst Case
Highest power density:	0.10 $\mu\text{W}/\text{cm}^2$	0.00 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0001 mW/cm^2	0.0000 mW/cm^2

ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier:	63 MHz	
Required minimum ANSI standard:	1.0 mW/cm^2	6 minutes Avg.
Percentage of ANSI requirement:	0.01 %	0.00 %

B. General Population/Uncontrolled Exposure

	Actual	Worst Case
Dist. of Person from ant/twr vert Plumb:	20 m	2 m
Dist. of Person from ant/twr Direct:	182.7 m	
Highest power density:	0.10 $\mu\text{W}/\text{cm}^2$	0.00 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0001 mW/cm^2	0.0000 mW/cm^2

ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier:	63 MHz	
Required minimum ANSI standard:	0.2 mW/cm^2	30 minutes Avg.
Percentage of ANSI requirement:	0.05 %	0.00 %