



RADIO FREQUENCY RADIATION COMPLIANCE STATEMENT

The Licensed facility, KERA-TV, 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:	KERA-TV CH14 Dallas, TX				3/8/2022	
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)
14	KERA-TV	TV UHF#1	1,375,000	451.00	0.04	0.18
19	KTVT	TV UHF#2	1,000,000	451.00	0.10	0.49
32	KDAF	TV UHF#3	1,000,000	490.10	0.07	0.36
33	KUVN-DT (Aux)	TV UHF#4	280,000	472.10	0.02	0.11
18	KTXA(DT)	TV UHF#5	1,000,000	488.90	0.08	0.42
34	KSTR-DT	TV UHF#6	1,000,000	472.10	0.08	0.38
90.1	KERA(FM) Aux	FM #1	29,000	430.00	0.05	0.24
91.7	KKXT(FM) Aux	FM #2	19,000	430.00	0.03	0.16
103.7	KVIL(FM) Aux	FM #3	58,000	430.00	0.09	0.47
107.5	KMVK(FM) Aux	FM #4	17,000	430.00	0.03	0.14
94.1	KLNO(FM) Aux	FM #5	45,000	430.00	0.07	0.37
98.7	KLUV(FM) Aux	FM #6	57,000	430.00	0.09	0.47
105.3	KRLD(FM) Aux	FM #7	85,000	430.00	0.14	0.70
100.3	KJKK(FM) Aux	FM #8	85,000	430.00	0.14	0.70
97.9	KBFB(FM) Aux	FM #9	51,000	430.00	0.08	0.42
Total %					1.11	5.60
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 exceeding FCC guidelines.



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

David Sanderford

David Sanderford – President



RF RADIATION TO HUMAN EXPOSURE CALCULATIONS UHF#1

Call letters: **KERA-TV**
Lic City: **Dallas, TX**
Channel: **14**

Date: **3/8/2022**
(UHF 300-1500 MHz)

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 **1,375,000 W**

Worst Case downward radiation: **0.05**
Typical relative field factor in the downward direction: **0.05**
(from -60 to -90 degrees elevation)
Distance from ground to antenna center of radiation: **451.0 m**

A. Occupational/Controlled Exposure

	Actual	Worst Case
Highest power density:	0.56 $\mu\text{W}/\text{cm}^2$	0.56 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0006 mW/cm^2	0.0006 mW/cm^2

ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier:	473 MHz	
Required minimum ANSI standard:	1.5767 mW/cm^2	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:	449.4 m	
Highest power density:	0.57 $\mu\text{W}/\text{cm}^2$	0.57 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0006 mW/cm^2	0.0006 mW/cm^2

ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier:	473 MHz	
Required minimum ANSI standard:	0.3153 mW/cm^2	30 minutes Avg.
Percentage of ANSI requirement:	0.18 %	0.18 %



RF RADIATION TO HUMAN EXPOSURE CALCULATIONS UHF#2

Call letters: **KTVT**

Date: **3/8/2022**

Lic City: **Fort Worth, TX**

(UHF 300-1500 MHz)

Channel: **19**

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 **1,000,000 W**

Worst Case downward radiation: **0.10**

Typical relative field factor in the downward direction: **0.10**

(from -60 to -90 degrees elevation)

Distance from ground to antenna center of radiation: **451.0 m**

A. Occupational/Controlled Exposure

	Actual	Worst Case
Highest power density:	1.64 $\mu\text{W}/\text{cm}^2$	1.64 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0016 mW/cm^2	0.0016 mW/cm^2

ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier:	503 MHz	
Required minimum ANSI standard:	1.6767 mW/cm^2	6 minutes Avg.
Percentage of ANSI requirement:	0.10 %	0.10 %

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:	449.4 m	

	Actual	Worst Case
Highest power density:	1.65 $\mu\text{W}/\text{cm}^2$	1.65 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0017 mW/cm^2	0.0017 mW/cm^2

ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier:	503 MHz	
Required minimum ANSI standard:	0.3353 mW/cm^2	30 minutes Avg.
Percentage of ANSI requirement:	0.49 %	0.49 %



RF RADIATION TO HUMAN EXPOSURE CALCULATIONS UHF#3

Call letters: **KDAF**
Lic City: **Dallas, TX**
Channel: **32**

Date: **3/8/2022**
(UHF 300-1500 MHz)

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 **1,000,000 W**

Worst Case downward radiation: **0.10**
Typical relative field factor in the downward direction: **0.10**
(from -60 to -90 degrees elevation)
Distance from ground to antenna center of radiation: **490.1 m**

A. Occupational/Controlled Exposure

	Actual	Worst Case
Highest power density:	1.39 $\mu\text{W}/\text{cm}^2$	1.39 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0014 mW/cm^2	0.0014 mW/cm^2

ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier:	581 MHz	
Required minimum ANSI standard:	1.9367 mW/cm^2	6 minutes Avg.
Percentage of ANSI requirement:	0.07 %	0.07 %

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:	488.5 m	
Highest power density:	1.40 $\mu\text{W}/\text{cm}^2$	1.40 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0014 mW/cm^2	0.0014 mW/cm^2

ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier:	581 MHz	
Required minimum ANSI standard:	0.3873 mW/cm^2	30 minutes Avg.
Percentage of ANSI requirement:	0.36 %	0.36 %



RF RADIATION TO HUMAN EXPOSURE CALCULATIONS UHF#4

Call letters: **KUVN-DT (Aux)**
Lic City: **Garland, TX**
Channel: **33**

Date: **3/8/2022**
(UHF 300-1500 MHz)

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 **280,000 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: **472.1 m**

A. Occupational/Controlled Exposure

	Actual	Worst Case
Highest power density:	0.42 $\mu\text{W}/\text{cm}^2$	1.68 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0004 mW/cm^2	0.0017 mW/cm^2

ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier:	587 MHz	
Required minimum ANSI standard:	1.9567 mW/cm^2	6 minutes Avg.
Percentage of ANSI requirement:	0.02 %	0.09 %

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:	470.5 m	
Highest power density:	0.42 $\mu\text{W}/\text{cm}^2$	1.69 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0004 mW/cm^2	0.0017 mW/cm^2

ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier:	587 MHz	
Required minimum ANSI standard:	0.3913 mW/cm^2	30 minutes Avg.
Percentage of ANSI requirement:	0.11 %	0.43 %



RF RADIATION TO HUMAN EXPOSURE CALCULATIONS UHF#5

Call letters: **KTXA(DT)**
Lic City: **Fort Worth, TX**
Channel: **18**

Date: **3/8/2022**
(UHF 300-1500 MHz)

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	1,000,000 W
Worst Case downward radiation:		0.20
Typical relative field factor in the downward direction: (from -60 to -90 degrees elevation)		0.10
Distance from ground to antenna center of radiation:		488.9 m

A. Occupational/Controlled Exposure

	Actual	Worst Case
Highest power density:	1.40 $\mu\text{W}/\text{cm}^2$	5.59 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0014 mW/cm^2	0.0056 mW/cm^2

ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier:	497 MHz	
Required minimum ANSI standard:	1.6567 mW/cm^2	6 minutes Avg.
Percentage of ANSI requirement:	0.08 %	0.34 %

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:	487.3 m	
Highest power density:	1.41 $\mu\text{W}/\text{cm}^2$	5.63 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0014 mW/cm^2	0.0056 mW/cm^2

ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier:	497 MHz	
Required minimum ANSI standard:	0.3313 mW/cm^2	30 minutes Avg.
Percentage of ANSI requirement:	0.42 %	1.70 %



RF RADIATION TO HUMAN EXPOSURE CALCULATIONS UHF#6

Call letters: **KSTR-DT**
Lic City: **Irving, TX**
Channel: **34**

Date: **3/8/2022**
(UHF 300-1500 MHz)

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	1,000,000 W
Worst Case downward radiation:		0.20
Typical relative field factor in the downward direction: (from -60 to -90 degrees elevation)		0.10
Distance from ground to antenna center of radiation:		472.1 m

A. Occupational/Controlled Exposure

	Actual	Worst Case
Highest power density:	1.50 $\mu\text{W}/\text{cm}^2$	6.00 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0015 mW/cm^2	0.0060 mW/cm^2

ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier:	593 MHz	
Required minimum ANSI standard:	1.9767 mW/cm^2	6 minutes Avg.
Percentage of ANSI requirement:	0.08 %	0.30 %

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:	470.5 m	
Highest power density:	1.51 $\mu\text{W}/\text{cm}^2$	6.04 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0015 mW/cm^2	0.0060 mW/cm^2

ANSI Maximum Radiation Limit for this Channel -

Frequency of Visual Carrier:	593 MHz	
Required minimum ANSI standard:	0.3953 mW/cm^2	30 minutes Avg.
Percentage of ANSI requirement:	0.38 %	1.53 %



RF RADIATION TO HUMAN EXPOSURE CALCULATIONS FM #2

Call letters: **KKXT(FM) Aux**

Date: **3/8/2022**

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 **19,000 W**

Aural ERP: Vertical **0 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: **430.0 m**

A. Occupational/Controlled Exposure

	Actual	Worst Case
Highest power density:	0.31 $\mu\text{W}/\text{cm}^2$	0.31 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0003 mW/cm^2	0.0003 mW/cm^2

ANSI Maximum Radiation Limit for this Channel -

Frequency of Carrier:	91.7 MHz	
Required minimum ANSI standard:	1.0 mW/cm^2	6 minutes Avg.
Percentage of ANSI requirement:	0.03 %	0.03 %

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:	428.5 m	
Highest power density:	0.31 $\mu\text{W}/\text{cm}^2$	0.31 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0003 mW/cm^2	0.0003 mW/cm^2

ANSI Maximum Radiation Limit for this Channel -

Frequency of Carrier:	91.7 MHz	
Required minimum ANSI standard:	0.2 mW/cm^2	30 minutes Avg.
Percentage of ANSI requirement:	0.16 %	0.16 %



RF RADIATION TO HUMAN EXPOSURE CALCULATIONS FM #3

Call letters: **KVIL(FM) Aux**

Date: **3/8/2022**

Lic City: **Highland Park-Dallas (FM 30-300 MHz)**

Channel: **279C**

Frequency: **103.7** MHz

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

Aural ERP: Horizontal **58,000 W**

Aural ERP: Vertical **0 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: **430.0 m**

A. Occupational/Controlled Exposure

	Actual	Worst Case
Highest power density:	0.94 $\mu\text{W}/\text{cm}^2$	0.94 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0009 mW/cm^2	0.0009 mW/cm^2

ANSI Maximum Radiation Limit for this Channel -

Frequency of Carrier:	103.7 MHz	
Required minimum ANSI standard:	1.0 mW/cm^2	6 minutes Avg.
Percentage of ANSI requirement:	0.09 %	0.09 %

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:	428.5 m	
Highest power density:	0.95 $\mu\text{W}/\text{cm}^2$	0.95 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0009 mW/cm^2	0.0009 mW/cm^2

ANSI Maximum Radiation Limit for this Channel -

Frequency of Carrier:	103.7 MHz	
Required minimum ANSI standard:	0.2 mW/cm^2	30 minutes Avg.
Percentage of ANSI requirement:	0.47 %	0.47 %



RF RADIATION TO HUMAN EXPOSURE CALCULATIONS FM #4

Call letters: **KMVK(FM) Aux**

Date: **3/8/2022**

Lic City: **Fort Worth, 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 **0 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: **430.0 m**

A. Occupational/Controlled Exposure

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

ANSI Maximum Radiation Limit for this Channel -

Frequency of Carrier:	107.5 MHz	
Required minimum ANSI standard:	1.0 mW/cm^2	6 minutes Avg.
Percentage of ANSI requirement:	0.03 %	0.03 %

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

ANSI Maximum Radiation Limit for this Channel -

Frequency of Carrier:	107.5 MHz	
Required minimum ANSI standard:	0.2 mW/cm^2	30 minutes Avg.
Percentage of ANSI requirement:	0.14 %	0.14 %



RF RADIATION TO HUMAN EXPOSURE CALCULATIONS FM #5

Call letters: **KLNO(FM) Aux**

Date: **3/8/2022**

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

Channel: **231C**

Frequency: **94.1** MHz

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

Aural ERP: Horizontal **45,000 W**

Aural ERP: Vertical **0 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: **430.0 m**

A. Occupational/Controlled Exposure

	Actual	Worst Case
Highest power density:	0.73 $\mu\text{W}/\text{cm}^2$	0.73 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0007 mW/cm²	0.0007 mW/cm²

ANSI Maximum Radiation Limit for this Channel -

Frequency of Carrier:	94.1 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

	Actual	Worst Case
Dist. of Person from ant/twr vert Plumb:	20 m	Head Height 2 m
Dist. of Person from ant/twr Direct:	428.5 m	
Highest power density:	0.74 $\mu\text{W}/\text{cm}^2$	0.74 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0007 mW/cm²	0.0007 mW/cm²

ANSI Maximum Radiation Limit for this Channel -

Frequency of Carrier:	94.1 MHz	
Required minimum ANSI standard:	0.2 mW/cm²	30 minutes Avg.
Percentage of ANSI requirement:	0.37 %	0.37 %



RF RADIATION TO HUMAN EXPOSURE CALCULATIONS FM #6

Call letters: **KLUV(FM) Aux**

Date: **3/8/2022**

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

Channel: **254C**

Frequency: **98.7** MHz

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

Aural ERP: Horizontal **57,000 W**

Aural ERP: Vertical **0 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: **430.0 m**

A. Occupational/Controlled Exposure

	Actual	Worst Case
Highest power density:	0.93 $\mu\text{W}/\text{cm}^2$	0.93 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0009 mW/cm^2	0.0009 mW/cm^2

ANSI Maximum Radiation Limit for this Channel -

Frequency of Carrier:	98.7 MHz	
Required minimum ANSI standard:	1.0 mW/cm^2	6 minutes Avg.
Percentage of ANSI requirement:	0.09 %	0.09 %

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:	428.5 m	
Highest power density:	0.93 $\mu\text{W}/\text{cm}^2$	0.93 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0009 mW/cm^2	0.0009 mW/cm^2

ANSI Maximum Radiation Limit for this Channel -

Frequency of Carrier:	98.7 MHz	
Required minimum ANSI standard:	0.2 mW/cm^2	30 minutes Avg.
Percentage of ANSI requirement:	0.47 %	0.47 %



RF RADIATION TO HUMAN EXPOSURE CALCULATIONS FM #6

Call letters: **KRLD(FM) Aux**

Date: **3/8/2022**

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 **85,000 W**

Aural ERP: Vertical **0 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: **430.0 m**

A. Occupational/Controlled Exposure

	Actual	Worst Case
Highest power density:	1.38 $\mu\text{W}/\text{cm}^2$	1.38 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0014 mW/cm^2	0.0014 mW/cm^2

ANSI Maximum Radiation Limit for this Channel -

Frequency of Carrier:	105.3 MHz	
Required minimum ANSI standard:	1.0 mW/cm^2	6 minutes Avg.
Percentage of ANSI requirement:	0.14 %	0.14 %

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:	428.5 m	
Highest power density:	1.39 $\mu\text{W}/\text{cm}^2$	1.39 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0014 mW/cm^2	0.0014 mW/cm^2

ANSI Maximum Radiation Limit for this Channel -

Frequency of Carrier:	105.3 MHz	
Required minimum ANSI standard:	0.2 mW/cm^2	30 minutes Avg.
Percentage of ANSI requirement:	0.70 %	0.70 %



RF RADIATION TO HUMAN EXPOSURE CALCULATIONS FM #6

Call letters: **KJJK(FM) Aux**

Date: **3/8/2022**

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 **85,000 W**

Aural ERP: Vertical **0 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: **430.0 m**

A. Occupational/Controlled Exposure

	Actual	Worst Case
Highest power density:	1.38 $\mu\text{W}/\text{cm}^2$	1.38 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0014 mW/cm^2	0.0014 mW/cm^2

ANSI Maximum Radiation Limit for this Channel -

Frequency of Carrier:	100.3 MHz	
Required minimum ANSI standard:	1.0 mW/cm^2	6 minutes Avg.
Percentage of ANSI requirement:	0.14 %	0.14 %

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:	428.5 m	
Highest power density:	1.39 $\mu\text{W}/\text{cm}^2$	1.39 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0014 mW/cm^2	0.0014 mW/cm^2

ANSI Maximum Radiation Limit for this Channel -

Frequency of Carrier:	100.3 MHz	
Required minimum ANSI standard:	0.2 mW/cm^2	30 minutes Avg.
Percentage of ANSI requirement:	0.70 %	0.70 %



RF RADIATION TO HUMAN EXPOSURE CALCULATIONS FM #6

Call letters: **KBFB(FM) Aux**

Date: **3/8/2022**

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 **51,000 W**

Aural ERP: Vertical **0 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: **430.0 m**

A. Occupational/Controlled Exposure

	Actual	Worst Case
Highest power density:	0.83 $\mu\text{W}/\text{cm}^2$	0.83 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0008 mW/cm^2	0.0008 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:	0.08 %	0.08 %

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:	428.5 m	
Highest power density:	0.84 $\mu\text{W}/\text{cm}^2$	0.84 $\mu\text{W}/\text{cm}^2$
Power Density at ground level:	0.0008 mW/cm^2	0.0008 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:	0.42 %	0.42 %