

RADIOTECHNIQUES

402 Tenth Avenue • PO Box 367 • Haddon Heights, NJ 08035

856-546-8008 • Fax: 856-546-1841

Environmental Statement KOTX Hebronville, TX Minor Change July 2020

Section 106 Review

The proposed FM antenna will be mounted on a guyed tower which does not require tower registration because it does not exceed 199 ft nor impact FAA airspace. This antenna structure is not subject to Section 106 Review.

FCC Part 1.1306

- The site is not within an officially designated wilderness area or wildlife preserve.
- The mounting of the antenna will not effect endangered species.
- The site is not in a floodplain.
- The mounting of the antenna will not involve a significant change in surface features.
- The tower will not use high intensity white lights.
- The mounting of the antenna does not exceed human exposure limits. See below.
- Compliance with RF safety requirements in accordance with FCC part 1.1306(8)b) as demonstrated below. The operation does not exceed human exposure limits.

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RF Worksheet #1 - FM (Including translators and boosters)

Effective Radiation Center Height Line

Enter the proposed "Height of radiation center above ground"	59 m	
or as listed in Line 1 of Worksheet 1A	59 m	(1)
Is the Antenna supporting structure located on the roof of a building	NO	YES/NO (2)
if Line 2 is "YES" enter the building height measured at the base of the antenna supporting structure in line 3		
If line 2 is "NO" enter "0" in Line 3	0 m	(3)
Subtract Line (3) from Line (1)	59 m	(4)
Subtract the value 2.0 from Line (4)	57 m	(5)

Total Effective Radiated Power

If "beam tilt" is utilized, list maximum values)

List Effective Radiated Power in the Horizontal Plane	6 kW	(6)
List Effective Radiated in the Vertical Plane	6 kW	(7)
Add lines 6 and 7 OR listed value from line 2 in Worksheet 1A	12 kW	(8)

PERCENTAGE OF FCC RF LIMIT(S) FOR MAXIMUM PERMISSIBLE EXPOSURE

Multiply line 8 by 3341	40092.0	(9)
Multiply the value listed in line 5 by itself	3249.0	(10)
Divide line 9 by line 10	12.340	(11)
Multiply line 11 by .5	6.170 %	(12)

DETERMINATION OF COMPLIANCE WITH CONTROLLED/OCCUPATIONAL LIMIT

Does Line 12 exceed 100%	NO	YES/NO (13)
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IF YOU ANSWERED "YES" IN LINE 13, THE WORKSHEETS MANY NOT BE USED IN THIS CASE.*

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IF YOU ANSWERED "NO" IN LINE 13, THEN THE SITE SHOULD COMPLY WITH THE FCC CONTROLLED/OCCUPATIONAL RF EXPOSURE LIMITS FOR GROUND LEVEL EXPOSURE. #

DETERMINATION OF COMPLIANCE WITH UNCONTROLLED/GENERAL POPULATION LIMIT

Does Line 12 exceed 20% NO (14)

IF YOU ANSWERED "NO" IN LINE 14, THEN THE SITE SHOULD COMPLY WITH THE FCC'S UNCONTROLLED / GENERAL POPULATION RF EXPOSURE LIMITS FOR GROUND LEVEL EXPOSURE. NO FURTHER STUDY REQUIRED