

RF WORKSHEET #1A - Multiple FM User Tower

If on roof, enter 1 >

COLUMN 1	COLUMN 2	COLUMN 3		
CALL SIGN	HEIGHT OF ANTENNA RADIATION CENTER ABOVE GROUND LEVEL	TOTAL EFFECTIVE RADIATED POWER (HORIZONTAL AND VERTICAL)		
WTCB - 106.7 MHz	201 meters	100	100	
	meters			Kilowatts
	meters			Kilowatts
	meters			Kilowatts
	meters			Kilowatts
	meters			Kilowatts
	meters			Kilowatts

List the smallest value in Column 2 201 m (1)

List the total of all vaules in Column 3 200 kW (2)

RF WORKSHEET #1 - FM (including translators & boosters)
EFFECTIVE RADIATION CENTER HEIGHT

Enter proposed "Height of radiation center above ground" OR as listed in line 1 of Worksheet 1A 201 m (1)

Is antenna supporting structure locted on the roof of a building: (check one) [] Yes [X] No (2)

If line 2 is "yes," enter the building height measured at the base of 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) 201 m (4)

Subtract the value 2.0 from line (4) 199 m (5)

TOTAL EFFECTIVE RADIATED POWER

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

List Effective Radiated Power in the Horizontal Plane 100 kW (6)

List Effective Radiated Power in the 100 kW (7)

Add Lines (6) and (7) OR list values from Line 2 in Worksheet 1A 200 kW (8)

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

Multiply Line (8) by 33.41 6682 (9)

Multiply the value listed in line (5) by itself 39601 (10)

Divide Line (9) by Line (10) 0.168733113 (11)

Multiply Line (11) by (100) 16.87331128 % (12)

DETERMINATION OF COMPLIANCE WITH CONTROLLED/OCCUPATIONAL LIMIT

Does Line (12) exceed 100% [] Yes [X] No (13)

DETERMINATION OF COMPLIANCE WITH UNCONTROLLED/GENERAL PUBLIC LIMIT

Does Line (12) exceed 20% [] Yes [X] No (14)

Rooftop with restricted access.

If you answered "yes" in Line (14) and "yes" in Line (2) (indicating that the tower is located on the roof of a building) and the general public is not allowed to the rooftop level, repeat lines 5 through 12, entering the value in Line (1) directly in Line (4)

 (If Multiple FM Use Tower, recalculations should be in accordance with instructions on Worksheet #1A) **Otherwise, go to the next section.**

Upon recalculation, Does Line (12) exceed 20% [] Yes [] No (15)

Access to base of tower restricted by fencing

If the tower is not located on the roof of a building, is the base of the tower [] Yes [X] No (16)

surrounding by fencing or other restrictive barrier and are appropriate warning signs posted on the fence that adequately detail the nature of the RF exposure environment contained therein?

If you answered "yes" in line (16), what is the distance from the base of the tower to the fence of barrier at its nearest point 3 m (17)

Multiply Line (9) (as calculated previously) by 5 33410 (18)

Subtract Line (10) (as calculated previously) from Line (18) -6191 (19)

Take the square root of Line (19) #NUM! m (20)

Is Line (20) less than or equal to Line (17) [#] Yes [#] No (21)

IF YOU ANSWERED "YES" IN LINE (21), THEN THE RF FIELD OUTSIDE THE FENCE COMPLIES WITH THE FCC'S UNCONTROLLED/GENERAL POPULATIONS EXPOSURE LIMIT. NO FURTHER STUDY REQUIRED.