

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

**Effective Radiation Center Height**

Line #

Enter the proposed "Height of radiation center above ground"	69 m	
or as listed in Line 1 of Worksheet 1A	69 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)	69 m	(4)
Subtract the value 2.0 from Line (4)	67 m	(5)

**Total Effective Radiated Power**

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

List Effective Radiated Power in the Horizontal Plane	0.2 kW	(6)
List Effective Radiated in the Vertical Plane	0.2 kW	(7)
Add lines 6 and 7 OR listed value from line 2 in Worksheet 1A	0.4 kW	(8)

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

Multiply line 8 by 3341	1336.4	(9)
Multiply the value listed in line 5 by itself	4489.0	(10)
Divide line 9 by line 10	0.298	(11)
Multiply line 11 by .5	0.149 %	(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 MAY NOT BE USED IN THIS CASE.\*****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)
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**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****IF YOU ANSWERED "YES" IN LINE (14), CONTINUE**