

Ch. 233 Translator RF Worksheet

Federal Communications Commission
Washington, DC 20554

Approved by OMB
3060-0110

RF Worksheet #1 – FM (including translators & boosters)

PLEASE COPY BEFORE USING. THE DETERMINATION OF COMPLIANCE MAY INVOLVE REPEATED CALCULATIONS. IF LOCATED ON A MULTIPLE FM USER TOWER, PLEASE COMPLETE RF WORKSHEET 1A BEFORE PROCEEDING.

EFFECTIVE RADIATION CENTER HEIGHT

Enter proposed "height of radiation center above ground" OR as listed in Line 1 7 m (1)
of Worksheet 1A.

Is antenna supporting structure located on the roof of a building? (check one)

☐ 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) 7 m (4)

Subtract the value 2.0 from Line (4) 5 m (5)

TOTAL EFFECTIVE RADIATED POWER

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

List Effective Radiated Power in the Horizontal Plane 250 kW (6)

List Effective Radiated Power in the Vertical Plane 250 kW (7)

Add Lines (6) and (7) OR list value from Line 2 in Worksheet 1A 500 kW (8)

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

Multiply Line (8) by 33.41 16.70 (9)

Multiply the value listed in Line (5) by itself 25.00 (10)

Divide Line (9) by Line (10) .66 (11)

Multiply Line (11) by (100) 66 (12)

DETERMINATION OF COMPLIANCE WITH CONTROLLED/OCCUPATIONAL LIMIT

Does Line (12) exceed 100% ☐ Yes ☒ No (13)

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'S CONTROLLED/OCCUPATIONAL RF EXPOSURE LIMITS FOR GROUND LEVEL EXPOSURE

*In this case, you may need to prepare an Environmental Assessment. See Instructions for Section III-C FCC Form 301.

DETERMINATION OF COMPLIANCE WITH THE UNCONTROLLED/GENERAL POPULATION LIMIT

Does Line (12) exceed 20% ☐ Yes ☐ No (14)