

## RF WORKSHEET #2: AM

PLEASE COPY THIS WORKSHEET PRIOR TO USING. IN THE CASE OF A MULTIPLE TOWER ARRAY, A COPY IS NECESSARY FOR EACH TOWER LISTED IN RF WORKSHEET #2a. See AM Instruction b. to "How to Use RF Worksheets" on page 5 Appendix A.

### SINGLE TOWER

Enter the transmitted power ..... 25.0 kW (1)  
Enter the distance from the tower to the nearest point of the fence or other  
restrictive barrier enclosing the tower ..... 4 m (2)

### DETERMINATION OF WAVELENGTH

#### Method 1: Electrical Height

The tower height in wavelength may be obtained from the electrical height in degrees of the radiator.

Electrical height of the radiator ..... 225.4 degrees (3a)  
Divide Line 3(a) by 360 degrees ..... 0.626 wavelength (3b)

#### Method 2: Physical Height

Alternatively, the wavelength may be obtained from the physical height of the radiator above the tower base and the frequency of the station.

Overall height of the radiator above the tower base ..... \_\_\_\_\_ m (4a)  
List the station's frequency ..... \_\_\_\_\_ kHz (4b)  
Divide 300,000 by Line (4b) ..... \_\_\_\_\_ m (4c)  
Divide Line (4a) by Line (4c) ..... \_\_\_\_\_ wavelength (4d)

### REQUIRED RESTRICTION DISTANCE

Use the appropriate AM fence distance table based on the wavelength determined in either Line (3b) or Line (4d) above. If the transmitted power is not listed in the table, use next highest value (e.g., if the transmitted power is 2.5 kW, use the fence value in the 5 kW column).

List the fence distance obtained from the appropriate table ..... 4.0 m (5)

Is the value listed in Line (5) less than or equal to the value listed in Line (2)? ☒ Yes ☐ No (6)

If Line (6) is "Yes," are warning signs posted at appropriate intervals which describe the nature of the potential hazard? ☒ Yes ☐ No (7)

IF EITHER LINE (6) OR LINE (7) WAS ANSWERED "NO", you may need to prepare an Environmental Assessment. However, in order to determine the need for such an Assessment please see the NOTE on page 5 of Appendix A. If after consideration of such factors as the antenna radiation pattern, measurement data and the barriers which restrict access you conclude that an Environmental Assessment is required, please see Section I of the instructions to this worksheet entitled "Environmental Assessment."

IF BOTH LINE (6) AND LINE (7) WERE ANSWERED "YES", it appears that this tower complies with the FCC guidelines with respect to the general public. Please be aware, that each site user must also meet requirements with respect to "on-tower" or other exposure by workers at the site (including RF fields caused by other facilities on the tower, or RF fields caused by facilities on another tower or towers). These requirements include, but are not limited to the reduction or cessation of transmitter power when persons have access to the site, tower, or antenna. See OET Bulletin 65 for more details.



## RF WORKSHEET #2a Multiple Tower AM Array

Do not use this table if there are FM, TV or other non-excluded RF sources on any single tower of the array.

Tower Number	Transmitted Power (kW)	Distance to Fence (meters)
1	25.0	4.0
2	25.0	4.0
3	25.0	4.0
4	25.0	4.0
5		
6		
7		
8		
9		
10		
11		
12		

If each tower listed above meets the distance requirements of worksheet #2, it appears this tower complies with the FCC guidelines with respect to the general public. Please be aware, that each site user must also meet requirements with respect to "on-tower" or other exposure by workers at the site. These requirements include, but are not limited to the reduction or cessation of transmitter power when persons have access to the site, tower, or antenna. See OET Bulletin 65 for more details.

If the distance from the base of the tower to the fence is less than the value listed above, you may need to prepare an Environmental Assessment. However, in order to determine the need for such an assessment please see the NOTE on page 5 of Appendix A. If after consideration of such factors as the antenna radiation pattern, measurement data and the barriers which restrict access you conclude that an Environmental Assessment is required, please see Section I of the instructions to this worksheet entitled "Environmental Assessment."