

ENVIRONMENTAL CONSIDERATIONS
LPTV CHANNEL 16
W65DP
LIMA, OH

The proposal herein is to use an existing registered tower, with no increase in height. The tower is not in a national forest, any registered historic area of the United States, or a NAD radio quiet zone. Therefore, no environmental analysis is required except for exposure of humans to electromagnetic radiation.

The herein-relocated station will make use of channel 16 for signal origination and according to part 1.1310 of the Rules, the maximum permissible exposure (MPE) for this station given in terms of power density is given below. In addition, the actual value for the radiated power density was calculated using the technical parameters for this station and the following equation:

$$S = \text{EIRP} / \pi R^2$$

Where

S = Power density (mW/cm²)

EIRP = Effective Isotropic Radiated Power (mW)

R = Distance from the radiation center (cm)

To account for exposure arising from ground reflections, the calculated power at a point 6 feet AGL is multiplied by a coefficient of 1.6 as recommended by the Environmental Protection Agency (EPA).

| | | <u>mW/cm²</u> |
|--|------------|--------------------------|
| 1) Occupational / Controlled Exposures | max | 1.617 |
| | calculated | 0.005 |
| 2) General Population / Uncontrolled Exposures | max | 0.323 |
| | calculated | 0.005 |

As shown above, the radiated power density is well below the limits and no exposure risks should exist.