

## **Suggested Code Requirements For Neighborhood Friendly EMC Regulation**

**Appropriate regulation of the use of EMC displays is important. Having well-crafted regulations supports the needs of the business community to use the best and most cost-effective advertising solution; while also providing the community with safe, appropriate information and wayfinding messages that are not overly intrusive, distracting or gaudy.**

- ❖ Intervals for messages set to require a minimum of 5-15 seconds between changes of message.
  
- ❖ Require “instantaneous” change of the display with no animated effects for message changes *-or-* require that only appropriate specific types of transitions can be used (typically blur, fade, wipe) and that the transition time be limited to a maximum of 2 seconds.
  
- ❖ Prohibit scrolling.
  
- ❖ Prohibit use of video *-or-* prohibit both animation and video use.
  
- ❖ Prohibit flashing of the display or content.
  
- ❖ Limit brightness using the following stacking requirements:
  - (1) Maximum brightness allowed to be no more than 10,000 nits during daylight and 700 nits at night (or other settings as appropriate).
  
  - (2) Automatic tracking of daily sunrise and sunset along with requirement that maximum brightness settings be automatically controlled and keyed to time of sunrise and sunset each day.
  
  - (3) Require automatic brightness control to be also linked to ambient light level sensor which will override the pre-set maximum brightness limit when it is not necessary.

- ❖ Require display to go dark automatically if there is a major failure or malfunction (fail to black mode) to eliminate random flashing and flickering in the case of a major system failure.
- ❖ Specify orientation requirements for message centers which are within a set distance (typically 150 feet) from areas zoned for residential use (ie: allow message boards to be perpendicular to residential frontages with exposed windows, but not parallel to them).
- ❖ Specify specific shut-off times at night (typically 10pm) and later start times in the morning (typically 7am) for signs within a specific distance of a residential dwelling with windows on the fascia(s) facing the sign and within a given distance (typically 150 feet).
- ❖ To protect residents from interference with cellular/TV/radio and other frequencies/signals, require that all electronic message centers are FCC certified as required by Federal Law, and have the required two-part FCC label affixed to the display.
- ❖ Require certification of all the above, as part of the permit application process using the following stacking requirements:

(1) A letter of certification from display manufacturer agreeing that requirements can be met and certifying that they will be locked down so that they cannot be changed by end user or sign company.

(2) A form executed by sign company acknowledging that they are responsible for ensuring that all display setting requirements are implemented at time of install, and locked down by the manufacturer (as above) in conformance with all requirements of the code for permit to be valid.

(3) A form executed by the owner/end user agreeing that permit issuance is conditional, and based upon the use of the agreed upon display settings, and that the permit can be revoked (with notice and a reasonable opportunity to correct the problem) if the sign is not in compliance.

(4) Require that a valid copy of the FCC Manufacturers Testing Certificate be supplied along with the permit application.

(5) Require that proof of UL (or equivalent listed independent testing laboratory) listing be supplied along with permit application.

