

**Comments on Draft 1 ENERGY STAR® Program Requirements for Displays Version 5.0**  
**Fujitsu Siemens Computers**  
**26/08/2008**

Page	Requirement	Proposed change
11-12	<p>G. <u>Luminance Test Patterns and Procedures:</u>  <b>For all Fixed Pixel displays (e.g., LCDs and others),</b>  test pattern (VESA FPDM Standard 2.0, A112-2F, SET01K) shall be displayed that provides eight shades of gray from full black (0 volts) to full white (0.7 volts).<sup>1</sup> Input signal levels shall conform to VESA Video Signal Standard (VSIS), Version 1.0, Rev. 2.0, December 2002. With the brightness and contrast controls at maximum, the technician shall check that, at a minimum, the white and near white gray levels can be distinguished. If white and near white gray levels cannot be distinguished, then contrast shall be adjusted until they can be distinguished. The technician shall next display a test pattern (VESA FPDM Standard 2.0, A112-2H, L80) that provides a full white (0.7 volts) box that occupies 80% of the image. The technician shall then adjust the brightness control until the white area of the screen is set at the unit's default, as-shipped luminance setting, measured according to VESA FPDM Standard 2.0, Section 302-1. The luminance value shall be reported to EPA with other required testing documentation.</p>	<p>G. <u>Luminance Test Patterns and Procedures:</u>  <b>For all Fixed Pixel displays (e.g., LCDs and others),</b>  test pattern (VESA FPDM Standard 2.0, A112-2F, SET01K) shall be displayed that provides <b>ten</b> shades of gray from full black (0 volts) to full white (0.7 volts).<sup>1</sup> Input signal levels shall conform to VESA Video Signal Standard (VSIS), Version 1.0, Rev. 2.0, December 2002. <b>With the brightness and contrast is set to factory default setting (as-shipped setting) on monitor, the technician shall check that, at a minimum, the white and near white gray levels can be distinguished. If white and near white levels cannot be distinguished, then contrast or suitable other option shall be adjusted until they can be distinguished.</b>  <b>The luminance value shall not be below 170 cd/m<sup>2</sup>.</b>  <b>The technician shall next display a test pattern (VESA FPDM Standard 2.0, A112-2H, L80) that provides a full white (0.7 volts) box that occupies 80% of the image.</b></p>