

Proposal 15971 – Permanent Dynamic Message Signs using Full Color Matrix and Full Color LED Technology

Questions and Responses

- Q1)** On 3.5.7 item J, you have the spec for the DC power. The last of the bullet items is the following: The failure of power supplies shall allow for the sign to power at least 30% of the LED's at 50% brightness. This doesn't make sense. If two power supplies fail, and if those are the two redundant supplies, then there is no power to that section of the display. If two power supplies fail, and they are not two redundant supplies, then there will be no noticeable difference. Does this actually mean that for every sign you need a minimum of two sets of redundant supplies so that if the power supplies fail there is still some of the display operating?
- R1)** The intent of this requirement is to have enough power available to drive at least 30%, at 50% brightness, of the LED pixels for the entire DMS display (a typical message uses about 30% of the pixels) in the event that any two power supplies fail. The benefit is to enhance the sign operability during an extended operating period if DOT cannot repair the failed power supplies in a timely manner due to unavailable parts or at remote locations. Please also see Addendum 1.