

7000000 HIGHWAY SIGNING
COMMENTS FROM INTERNAL/INDUSTRY REVIEW

Dan Scheer

Comments: (11-15-13)

1. **700-3.2:** Where did this move to?

Response: Moved to Section 603 per COPS meeting decision. Decision was that it needed to be located in the general section (603 - General Requirements for Traffic Control Signals and Devices) instead of being duplicated.

No change made.

2. 700-4.2 (last paragraph) & 700-5.2 (1st paragraph, last sentence):

Should this be up in 'General'?

Response: See previous response.

3. 700-3.3.5.1:

Is a 5 year warranty standard?

Response: Yes, this is the standard warranty offered by currently approved APL manufacturers.

No change made.

4. 700-5.2.2.1:

(The housing must protect and seal the dynamic display and other internal (electronics.) From what....???? Doesn't the NEMA 3R rating ensure this?

Response: Agree. NEMA rating covers this and is less subjective. (No Change Made).

5. 700-5.2.11:

The electronic display sign assembly operates properly during and after being subjected to the environmental testing procedures described in NEMA TS 2, (Sections 2.2.7, 2.2.8, and 2.2.9).

Do we have to be so specific?

Response: Yes. This is a very specific requirement that needs to be known by the manufacturer as only parts of the standard apply. Same for FCC Title 47, Subpart B.

No change made.

Hudson, Cheryl

Comments: (11-26-13) 700-4.2.3.1 ".....are be allowed....." (I think the "be" needs to go).

Response: Change made.

Strickland, Daniel

Comments: (11-26-13) Dan – The only comment I have is to also delete the word "be" in the following Highway Lighting Spec 7000000:

700-4.2.3.1 Housing Face for Walk-in DMS: No exposed fasteners ~~are~~^{will} be allowed on the housing face.

Response: Agree. Change made.

Stefanie D. Maxwell

Comments: (12-5-13) Delete the following sentence from the next to last paragraph of 700-1.2.4: Use fluorescent orange for all work zone signs. We moved this language to Section 102-9.2 Work Zone Signs.

Response: Agree. Change made.

Jeffrey S. Tuell
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Comments: (12-13-13)

1. Include “be” in the stricken language in 700-4.2.3.1, as follows:

700-4.2.3.1 Housing Face for Walk-in DMS: No exposed fasteners ~~are~~^{will be} allowed on the housing face. Ensure that display modules can be easily and rapidly removed from within the sign without disturbing adjacent display modules.

Response: Agree. Change made.

2. I recommend the following change to 700-4.6, in hopes that it will further clarify the point being edited:

700-4.6 Uninterruptible Power Supply (UPS): If a UPS is required in the Contract Documents for walk-in DMS, ensure the UPS is installed within the sign housing or as shown in the Plans. If a UPS is required in the Contract Documents for front access and embedded signs, ensure the UPS is installed within the control cabinet or as shown in the Plans. The UPS system must be capable of ~~independently powering the sign to display~~^{displaying the current} messages ~~on a sign when a power outage occurs~~ for a minimum of two hours. Ensure the system uses sealed absorbed glass mat (AGM) batteries.

Response: It is not intended for graphical messages to be included in this requirement. The proposed language meets this intent.
No change made.

3. 700-5.2.2.1: reincorporate the non-glare requirement for polycarbonate facing (when used).

Response: Based on product evaluations at the TERL and products currently on the Department’s APL, specifying non-glare polycarbonate is not practical. The material commonly used for this application is not non-glare. However, approved products mitigate glare using different methods, such as using masks in front of the polycarbonate or angling the polycarbonate face downward such that it does not directly reflect light back at approaching traffic. In addition, products listed on the APL are evaluated to ensure that they do not exhibit glare as part of legibility and visibility evaluations to ensure that approved products do not

exhibit excessive glare.
No change made.

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Comments: (12-13-13)

1. 700-5.2.7.2 Speed Detector and 700-5.2.10.2:

Why would you want the screen blank? If the alternate is to display a message such as “Slow Down”, shouldn’t this Section state when the detected speed is below the maximum programmed speed threshold the display must automatically blank?

When the detected speed exceeds the maximum programmed speed (high speed cut-off) threshold, the display ~~must~~will automatically blank.

Response: Requiring all electronic speed feedback signs to have the ability to display “Slow Down” would be overly restrictive (though some approved devices are capable of this functionality). The programmable cut-off limits allow the display to be configured in a manner that should suite local agency needs. The owner can choose to either display any speed detected (typically up to 99MPH since these devices use 2-digit displays) or limit the display within a certain range. Some would rather disable the display at extremely high speeds to remove the possibility that reckless drivers might view maxing out the display as a challenge or game when enforcement is not present.
No change made.

D4 Const.

Comments: (12-20-13)

1. 700-2.1.5 Add "Columns must be plumb and" in front of last sentence.

Response: Agree. Change made.

2. 700-3.2.5 In lieu of the word "must", suggest "shall".

Response: Disagree. Div II specs are written in active, imperative voice. “Shall” is not an active verb.
No change made.

Anonymous

Comments: (12-23-13)

700-2.1.5 Add/delete the highlighted text.

700-2.1.5 Installation: It is the Contractor’s responsibility to verify the length of the column supports in the field prior to fabrication to permit the appropriate sign mounting height. Fabricate the supports and wind beams in accordance with the Design Standards.

Columns must be plumb and Panels must be level with the proper orientation.

Response: Agree. Change made.
