

US Department of Transportation Federal Highway Administration

SENT VIA ELECTRONIC M/KI

Subject: Sign Sheeting Proprietary Products

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John R. Baxter From: Acting Associate Administra of for Safety

eply to Archived Attn. of: HSA-10

Division Administrators To: Federal Lands Pignway Division Engineers

Archived We have recently had questions roused by field offices regarding traffic sign sheeting and regulations concerning sole source requirements. Specifically, we have been asked how Divisions should treat Type VII and Type IV sign sheeting. Since these products have an ASTM designation, are bey considered scheric and not proprietary, or the they sole-source products? Should the required use of these sheeting to be justified through a public interest fin ung? This mer a randum is me un to assist you with those questions and to leave u know that FHWA has sources at you disposal to assist you with those questions.

On the question of ASTM designation, ASTM D4956 designates sign sheeting by "Type, Some Types are so narrowly specified that only a single provider satisfies the criteria. Agen des specifying certain ASTN D4956 types need to be careful and that a proprie ary product is not un intentionally sponfied. Curren in the ASTM Type VII sheeting criteria can only be satisfied by a product from one company. It is therefore a proprietar product. The ASTM Type IX has also been a proprietar, product until just recently (Fal. 2005). As of January 2006, ASTM has not approved addition of a Type XI to the exitting Types in ASTM D495 even though the States have incorrectly specified Type XI, bid document.

The FHWA regulation in 23 C K 635.411, "Material or Product Selection" prohibits the expenditure of Federal-aid foods on a Federal-aid highway project "for any premium or roy dy on any patiented or proprietary material, specification, or process specifically set forth in the plans and specification " (referred to hereafter as "proprietary product"), unless specific conditions are met This regulation is intended to a sure competition in the selection of thereials, products, and processes while also all wing the opportunity for innovation where Archived there is a reasonable potential or improved o stormance.

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rchived The evaluation and approval of a public interest fir due g is ultimately a Division office decision; however, it is important that Divisions are applying the chets on sheeting materials in a consistent manner. For example, a new sheeting material may have higher reproreflectivity levels at certain testing geometries, and it ruly even have to her luminance curves than other sheeting materials when presented under Garious assumptions. However, if the differences in retroreflectivity or luminance (or any other material property) do not result in credible benefits for road users, then the differences may not support a public intere a finding.

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A higher ASTM Type design tion does not occessarily mean it performs better than the low designations. While that was true in the cast, it has not been true with the introduction a microprismatic sheetings. Research (C) WA/TX-02/4(19-1) has shown that guide signs made with Type IX sheeting do not have statistically significant longer varying distances than those made with Type VII or VIII sheeting, even when viewed from love trucks (FHWA/TX-03/4269-1). Recent research (CHWA/TX-04) 1796-4) has shown that guide sign legends made with Sypes VII, VII) and IX sheeting produce statistically similar 10 bility distances when vie ved from paramiger cars. This indicates that, before a finding of public interest is approved, a Division office should request unbiased Vocumented endence supporting how the needs of the public will be better net by requiring a proprietary product than by phowing competition with other equally suitable produce. In addition, to the issue is no intenance of the product ov ., time, the use of a warranty or ther maintenance agreement (which can be by competit vely) should be considered.

The Office of Safe will provide a duitional guidance on how best to evaluate new sneeting. tesearch consultant has been engaged to provide FHWA with ssistance on the technical aspects of sight sheeting currently on the market and to provide advice on the evaluation of new sheeting. We anticipate receiving a drace port with the information within a few months. In addition, the Office of Program Administration recently issued a ment randum providing clarification and gy Cance on FHW A's current regulations concerning patented and proprietary products.

We hope this information thelpful in the short term and that the guidance being developed will further assist Divisions with makin reasonable decisions on sign cheeting. If you have further, questions bet he future information is distributed please deel free to contact.

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Call Andersen - CFHRC - (202) 193-3366.

Iditional information, including the latest Sign Sheeting ID Gode, is available at Archived www.fhwa.doi.gov/retro.

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