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# WYOMING Department of Transportation

"Provide a safe and effective transportation system"

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April 21, 2021

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**Reference:** Docket No. FHWA-2020-0001, *Manual on Uniform Traffic Control Devices for Streets and Highways* (MUTCD)

The Wyoming Department of Transportation (WYDOT) respectfully submits these comments in response to the Notice of Proposed Rulemaking in this docket, published at 85 *Federal Register* 80898 *et seq.* (December 14, 2020).

In this docket, the Federal Highway Administration (FHWA) seeks comment on proposed revisions to the Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD), a lengthy manual incorporated by reference into the Code of Federal Regulation by reference and having the force of a rule as to its mandatory elements.<sup>1</sup>

At the outset, we wish to concur with comments submitted by state transportation departments of Idaho, Montana, North Dakota, South Dakota, and Wyoming and echo their deep commitment to safety in all aspects of our programs, including in highway safety.

Our state-specific technical concerns and recommendations are set forth in the following matrix.

<i>MUTCD Part</i>	<i>NPA Item #</i>	<i>Title</i>	<i>Requested Action</i>
1	10	State Adoption and Conformance	Downgrade the standard to guidance.
1	11	Target Compliance Dates	Include all new SHALL conditions and lengthen each date to at least 5 years and 10 years is preferred.
1	16	Definition of "Guidance"	Oppose proposed change to the definition as limiting state flexibility that should be clear in the context of "guidance" as opposed to a "standard" or mandate

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<sup>1</sup> See 23 CFR 655 subpart F.

<i>MUTCD Part</i>	<i>NPA Item #</i>	<i>Title</i>	<i>Requested Action</i>
2	87	One-way signs for roundabouts	Eliminate the standard all together. The existing chevrons used at roundabouts work very well.
2	90	One-way signs for roundabouts	Eliminate the standard all together. The existing chevrons used at roundabouts work very well.
2	102	Weight Limit signs (R12-1 to R12-7)	Downgrade proposed standard to guidance. Impractical to post detours.
2	114	Placement of warning signs	Keep the existing MUTCD stop condition distance.
2	120	One direction large arrow sign	Reserve the large arrow sign only for use on changes in horizontal alignment along a roadway.
2	123	Vehicle speed feedback signs	Reduce standard to guidance.
2	227	Signs for intersections at grade	Eliminate EXIT numbers for at grade intersections.
2	263	State welcome signs	Eliminate this section. State Welcome Signs are not traffic control devices and should not be regulated through the MUTCD.
2	298	Warning beacons on CMS	Eliminate the section.
3	320	Functions, widths and patterns of pavement markings	Insert a traffic volume threshold of 6,000 AADT and greater for 6" lines.
3	329	Channelizing lines	Reword guidance. Disagree with proposed guidance that ALL edge lines on two-lane roads to be 6".
3	340	Chevron and diagonal markings	Downgrade should statement to a may condition. Strongly disagree with the proposed language that chevron markings should, not may, be used in neutral areas.
4	413	Yellow change and red clearance intervals	Eliminate reference to the new ITE guide.

<i>MUTCD Part</i>	<i>NPA Item #</i>	<i>Title</i>	<i>Requested Action</i>
5	455	Markings	Delete support statement of 6" markings.
6	499	Temporary traffic control signals	Insert the use of engineering judgement for use and need of APS on work zones.
7	524	School bus stop when flashing signs	Remove the section.

Thank you for the opportunity to comment on the updated *Manual on Uniform Traffic Control Devices for Streets and Highways*. As the MUTCD has a profound effect on both public safety and practitioner operations, including our operations at the Wyoming Department of Transportation. I hope that you weigh these and our other comments carefully before proceeding.

Sincerely,

Mark Gillett  
Chief Engineer



Attachment: 5-state comments

Comments of the Transportation Departments of  
Idaho, Montana, North Dakota, South Dakota, and Wyoming  
to the  
Federal Highway Administration  
in  
Docket No. FHWA-2020-0001  
National Standards for Traffic Control Devices; the  
Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD); Revision  
April 25, 2021

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The transportation departments of Idaho, Montana, North Dakota, South Dakota and Wyoming (“we” or “our”) respectfully submit these joint comments in response to the Notice of Proposed Rulemaking in this docket, published at 85 Federal Register 80898 *et seq.* (December 14, 2020).

In this docket, FHWA seeks comment on proposed revisions to the Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD), a lengthy manual incorporated by reference into the Code of Federal Regulations.<sup>1</sup>

The proposed changes to the MUTCD are considerable and reflect a significant effort, as the MUTCD was last revised over a decade ago.

At the outset, the transportation departments of Idaho, Montana, North Dakota, South Dakota, and Wyoming wish to emphasize their deep commitment to safety in all aspects of our programs, including in highway safety.

Our concerns and recommendations for improving the proposal are set forth below.<sup>2</sup>

**We recommend that the proposed change to the definition of “Guidance” not be adopted; that one proposed change, if adopted, could be construed as making guidance statements mandatory, greatly increasing regulatory burdens.**

Currently, the MUTCD defines “Guidance” as “a statement of recommended, but not mandatory, practice in typical situations, with deviations allowed if engineering judgment or engineering study indicates the deviation to be appropriate....”

The proposed revision to the MUTCD would delete the phrase “but not mandatory.”

As a result, the definition would state that a guidance practice is recommended with deviations allowed under certain conditions. This revised language indicates that guidance would become more prescriptive, like a mandate – as deviations are allowed under specified and limited circumstances but not under other circumstances.

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<sup>1</sup> See 23 CFR 655 subpart F.

<sup>2</sup> While making this joint submission for emphasis, each of the five departments reserves the right to file consistent comments in this docket in its own name.

Courts tend to assume that changes in a statute or rule are intended to have meaning. Why else are the changes made? The proposed change to the definition of “guidance” is very straightforward. It would delete the clear statement that a guidance item in the MUTCD is “not mandatory.”

We oppose this proposed change because of its restrictive implications and because there are scores of “guidance” statements in the current (and proposed) MUTCD. As a result, this one change could transform all non-mandatory guidance statements into requirements that can be averted only under specified, limited circumstances, by means of engineering judgment or study. The effort to exercise engineering judgment or study is not taken lightly, underscoring the restrictive nature and the significance of the proposed deletion of “but not mandatory.”

We also note that in the published preamble to the rule FHWA, in discussing definitions, does not mention the proposed change to the definition of guidance. See numbered paragraph 16, 85 Federal Register 80902. Thus, the only indication of its intent is the change itself – removing the statement that guidance is “not mandatory.”

If FHWA wants to modify something in the MUTCD to be more restrictive, it should do so by proposing changes on an issue-by-issue basis. That way the public will have a clear opportunity to comment on each proposed change of an MUTCD statement from guidance to standard.

Accordingly, there are several reasons we recommend that this proposed change in the definition of guidance not be adopted. If substantive change is intended, we object to the reduction of state flexibility. Further, the merits of changing a non-binding recommendation to be more restrictive should be debated on an issue-by-issue basis, not handled for many issues all at once through a not easily noticed change of a definition. If no substantive change is intended by this proposed change in the definition, we still object, as the proposed change could be construed in courts and elsewhere as a substantive change – again, impacting many provisions.

**As safety is USDOT’s highest priority, we recommend that FHWA remove from the MUTCD restrictions on the use of patented and proprietary products to encourage innovation to improve safety.**

On January 21, 2021 the Senate Committee on Commerce, Science and Transportation held a hearing on the nomination of then Secretary-Designate Pete Buttigieg to be Secretary of USDOT, FHWA’s parent agency. In his statement to the Senators, the Secretary immediately stressed the importance of transportation safety:

“First and foremost, I want you to know that if confirmed, I will work every day to ensure that the Department meets its mission of ensuring safety ... Safety is the foundation of the department’s mission.”

Further, safety is what is emphasized in the statutes that underly the MUTCD. The MUTCD is incorporated by reference into the Code of Federal Regulations at 23 CFR 655 (see 655.601(a)). There the rule notes that the MUTCD is in accord with 23 USC sections 109(d) and 402(a). See

23 CFR 655.603(a).<sup>3</sup> It is important for FHWA and the MUTCD to be guided by the safety emphasis in those statutory provisions.

More specifically, in 23 USC 109(d) USDOT is authorized to approve signs, markings and traffic signals and the Secretary “is directed to concur only in such installations as will promote the safe and efficient utilization of the highways.”

In 23 USC 402(a), with regard to the traffic safety programs of USDOT administered by NHTSA, each state is directed to have a “highway safety program, approved by the Secretary, that is designed to reduce traffic accidents and the resulting deaths, injuries, and property damage.” 23 USC 402(a)(1). Unlike section 109(d), paragraph 402(a)(2) mentions “uniformity,” directing USDOT to promulgate “uniform guidelines ... expressed in terms of performance criteria” to improve safety in various ways. However, design specifics such as comprise the MUTCD are not “performance criteria,” the subject of the directive. Also, uniform signage, signals and markings are not listed as a subject of the performance criteria.

This is not to say that uniformity in markings and signage and traffic control devices should not be advanced up to a point. But safety is the principle underlying the statutory basis for the MUTCD.

Accordingly, we recommend two ways the proposed changes to the MUTCD should be modified to make the MUTCD consistent with emphasis on safety – one general and one specifically concerned with products protected by a patent or copyright or otherwise proprietary.

First, the proposed support statement at the outset of the MUTCD should be revised to list safety or improved safety as the primary purpose and as the first and foremost objective of the MUTCD. “Safety and efficiency,” the words used in 23 USC 109(d), appear as the **fourth** objective in proposed new section 1A.01, purpose of the MUTCD.

Proposed section 1A.01 should be revised so that “safety” or “improved safety” is both the purpose **and** the first objective. The other objectives, including uniformity, should be renumbered and modified as objectives to be pursued “to the extent consistent with safety.”

Second, the restrictions currently in the MUTCD regarding the use of patented, copyrighted, or proprietary products arbitrarily preclude the consideration of products that could improve highway safety if they are patented, copyrighted or proprietary and the rights have not been given away. The proposed MUTCD has rearranged relevant provisions but has the same effect as the current MUTCD as to patented, copyrighted, or proprietary products.

More specifically, two provisions in the current MUTCD discourage research and the development of new and improved technologies that could improve highway safety. Those current provisions, an item in the Introduction and another in Section 1A.10, prohibit the use of

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<sup>3</sup> The NPRM similarly notes 23 USC sections 109(d) and 402(a) as authority for the proposal. The NPRM also notes 23 USC 315, but that section is a basic authorization for rulemaking, not a substantive provision. See 85 Federal Register at 80899.

patented, copyrighted, and proprietary materials as traffic control devices, unless the intellectual property rights are essentially relinquished.<sup>4</sup>

The same restrictions are carried over into the proposed revision in proposed section 1D.08. The proposed language says, “The MUTCD limitation on proprietary products necessarily excludes proprietary traffic control devices which claim protection on the message conveyed. The purpose of this limitation is to ensure uniformity in the message. However, any other aspects of a device may be patented so long as the appearance, audible message, or other aspects of the message conveyed remain freely reproducible by all without infringing on any proprietary rights or interests.”

However, safety should be paramount.

The above-noted restrictions on proprietary products have the effect of discouraging efforts to improve safety, as the companies and individuals who would develop new highway safety technologies would like to benefit from the intellectual property they create (*i.e.*, patent the product). Accordingly, the prohibition on the use of patented materials included in the MUTCD is a significant barrier to the development and deployment of emerging technologies that can improve highway safety.

Further, FHWA recently decided to end its regulatory ban on the use of patented and proprietary products in construction and maintenance activities. See 84 Federal Register 51023 et seq. (September 27, 2019), amending 23 CFR 635. In that notice of final rule, FHWA stated that the ban on patented and proprietary products (in construction and maintenance) was “outdated” and that the change was made “to encourage innovation in the development of highway transportation technology and methods.” *Id.*

Accordingly, the restrictions in the current MUTCD on the use of products protected by patent should be deleted. Further, the provisions in the proposed revised MUTCD that restrict the use of patented products also should be deleted before the next MUTCD is adopted. Similarly, to reflect that change, any needed conforming changes should be made to other provisions, including but not limited to provisions regarding experimentation.

In addition, even with the removal of all language restricting the use of patent-protected devices because they are patent-protected, given the past history of this issue, and to protect against the risk that a clause in the MUTCD could be misconstrued as perpetuating this restriction, the revised MUTCD should include an affirmative statement such as “Traffic control devices contained in this Manual are allowed to be protected by a patent, trademark, or copyright.”<sup>5</sup>

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<sup>4</sup> See the Introduction to the MUTCD (2009) where, on the first page, a Standard provides that: “Traffic control devices contained in this Manual shall not be protected by a patent, trademark, or copyright, except for ... items owned by FHWA.” This restriction is reinforced later in the MUTCD in that, even for purposes of experimentation, it is stated that the concept of a traffic control device cannot be protected by a patent or copyright. MUTCD Section 1A.10, Guidance paragraph E. While it is arguable that a part of a traffic control device, but not the concept of a device, can be patent protected, in practice, Section 1A.10 has not changed the overall effect of the MUTCD’s discouragement of technological innovation to advance safety by precluding patent protection for traffic control devices.

<sup>5</sup> This could be a complete substitute for proposed section 1D.08, a provision that we recommend be deleted.

In recommending this position we emphasize this would not excuse a patented product from other requirements in the MUTCD, including visual appearance (uniformity in message). It does mean that a product protected by a patent would be given a chance to comply and be used rather than be precluded at the outset from attempting to comply. FHWA should not assume that this change would be problematic. If the change we recommend is made, FHWA, states, and others will see what the experience is, and change could be considered as appropriate based on real world experience. Simply, a patented device that meets applicable MUTCD requirements should be able to be deployed (as are other devices).

This would encourage innovation that would improve safety.

**We disagree with the request by a commenter that FHWA should, on an expedited basis, rewrite and reframe the MUTCD; concerns with the MUTCD should be addressed issue-by-issue as the proposed revision is finalized.**

At least one commenter, the National Association of City Transportation Officials (NATCO), has asked FHWA to rewrite and reframe the MUTCD on an expedited basis and has questioned the safety value of the MUTCD. We disagree with the broad request. It would reject or at least delay many proposed changes in the MUTCD that have been developed over the years and that are supported by many. We believe concerns with the MUTCD and the current proposed revisions to it should be addressed issue-by-issue. For example, above we have explained that the ban on patented and proprietary products in the current and proposed MUTCD act as a barrier to safety improvements and are not justified. But we have not asked that the entire MUTCD be reframed to make that needed change to advance safety. Change on an issue-by-issue basis is the appropriate path forward.

**FHWA should carefully consider cost implications of changes to the MUTCD before adopting them in a revised MUTCD.**

We ask that FHWA carefully consider the cost implications of any proposed changes to the MUTCD before adopting them. Any proposed changes that appear to be costly should have a clear safety benefit before being adopted into a revised MUTCD. This comment is not directed at any individual proposed change to the MUTCD, but is an important factor that FHWA should consider as to each issue as it works to adopt a revised version of the MUTCD.

### **Additional Comment.**

In proposed section 6J.01 a standard would prohibit painting over markings in conjunction with temporary traffic control (TTC) work. That provision should be removed. TTC is, by its very nature, temporary. We do not see that this restriction on state flexibility as to how to cover over or remove markings in a TTC area is warranted.

### **Conclusion**



The transportation departments of Idaho, Montana, North Dakota, South Dakota, and Wyoming thank FHWA for its consideration and urge further action by FHWA in accord with these comments.

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