

Rouse, Joseph M@DOT

From: Dave Missimer <drmissimer@mmm.com>
Sent: Friday, April 07, 2017 6:43 AM
To: Title 21 Changes@DOT
Subject: RE: Title 21 Modifications to Text the Proposed Regulations

3M appreciates the opportunity to comment on the Modifications to Text of the Proposed Regulations, and is supportive of these changes with the exception of the following comments.

Article 8, Section 1707.1 indicates the automatic vehicle identification equipment shall be compliant with the California 6C Electronic Toll Collection Standard Version 1.0. Article 9, Section 1708.1 provides for certification by a CTOC approved independent third party. 3M recommends the addition of further technical detail in the California 6C Electronic Toll Collection Standard Version 1.0 in the following areas:

- 1.) Section 3.1.1: 3M recommends the addition of the specification of the reference reader RF radiated power level applicable to this requirement.
- 2.) Section 3.1.2: 3M recommends the addition of the specification of the reference reader RF receiver sensitivity applicable to this requirement.
- 3.) Section 3.1.3, Tilt from horizontal plane: 3M recommends the removal of the text which mentions the return signal strength read range and proposes changing the absolute distance loss to a relative distance loss in percent referenced to the distance demonstrated in 3.1.1.
- 4.) Section 3.1.3, Tilt from vertical plane: 3M recommends the removal of the text which mentions the return signal strength read range and proposes changing the percent "loss in minimum activation energy" to a relative distance loss in percent referenced to the distance demonstrated in 3.1.1.
- 5.) Section 3.1.3, Rotation from horizontal plane: 3M recommends the removal of the text which mentions the return signal strength read range and proposes changing the percent "loss in minimum activation energy" to a relative distance loss in percent referenced to the distance demonstrated in 3.1.1.



Dave Missimer | Technical Manager
3M Traffic Safety and Security Division
200 Perimeter Park Drive, Suite E | Morrisville, NC 27560 | United States
Office: +1 919 281 1559
drmissimer@mmm.com



The information contained in this message and any attachments is intended only for the use of the individual or entity to which it is addressed, and may contain information that is **PRIVILEGED**, **CONFIDENTIAL**, and exempt from disclosure under applicable law. If you have received this message in error, you are prohibited from copying, distributing, or using the information. Please contact the sender immediately by return e-mail and delete the original message from your system.

From: Hancock, Steven A@DOT [mailto:steve.hancock@dot.ca.gov] **On Behalf Of** Title 21 Changes@DOT
Sent: Thursday, March 23, 2017 1:11 PM
To: adao@alamedactc.org; gcohoe@sanbag.ca.gov; Joe Wire <JWIRE@goldengate.org>; john.ristow@vta.org; McCune, Kathleen@METRO <mccunek@metro.net>; Kirk Avila <kavila@octa.net>; Lynn Valdivia <lvaldivia@mtc.ca.gov>; Michael

Blomquist <mblomquist@rctc.org>; Ray Traynor <Ray.Traynor@sandag.org>; Samuel Johnson <sjohnson@thetollroads.com>; Tilly Chang <Tilly.chang@sfcta.org>; Beth Zelinski <BZelinski@mtc.ca.gov>; Casey Emoto <Casey.Emoto@vta.org>; Dave Galzote <DGalzote@91expresslanes.com>; David Hartt <dhartt@cofirouteusa.com>; Thomas, Dave@RCTC <dthomas@rctc.org>; Ellen Lee <Elee@octa.net>; Jeff Gerbracht <JGerbracht@mtc.ca.gov>; 'Jeffrey Nazareno' <JNazareno@goldengate.org>; Jeffrey Weiss <jeff.weiss@tticonsulting.com>; Jennifer Crosson <jcrosson@rctc.org>; Jiqin Zeng <Jiqin.Zeng@sandag.org>; McCune, Kathleen@METRO <mccunek@metro.net>; LewT@Metro.net; Loeb, Heather G@DOT <heather.g.loeb@dot.ca.gov>; Lynn Valdivia <lvaldivia@mtc.ca.gov>; McCarty, Russ E. <Russ.McCarty@jacobs.com>; Michael Kolb <michael.kolb@t-t-i.com>; murali.ramanujam@vta.org; Patrick Vu <pvu@silicontc.com>; Patti Bond <pbond@thetollroads.com>; Reinland Jones <rjones@rctc.org>; Rick Carrier <rcarrier@thetollroads.com>; Stan Weiss <stan.weiss@tticonsulting.com>; stewartng@alamedactc.org; Vickie Dewey <Deweyv@pbworld.com>; Alastair Malarky <alastair.malarky@kapsch.net>; amiris@metro.net; AQUINO, REMEDIOS R. <RAquino@lawa.org>; Beth Zelinski <BZelinski@mtc.ca.gov>; Bill Brownsberger <bbrownsberger@faganconsulting.com>; CANTU, ISAIAS <ICANTU@lawa.org>; Casey Emoto <Casey.Emoto@vta.org>; Chris Tomlinson <ctomlinson@georgiatolls.com>; Dave Kristick <dkristick@e-470.com>; Dave Missimer <drmissimer@mmm.com>; Eric Redman <eric@neology-rfid.com>; Freund John <John.Freund@kapsch.net>; george.mcgraw@transcore.com; Greg Hulsizer <ghulsizer@HNTB.com>; Jennifer Mennucci <JMennucci@goldengate.org>; Jerry Finley <Jerry.Finley@sick.com>; Joe Mullis <joem@neology-rfid.com>; John Downey <DowneyJ@saccounty.net>; afremier@mtc.ca.gov; Kary Witt <KWitt@goldengate.org>; Kelly Gravelle <kelly.gravelle@transcore.com>; Knuckey, Thomas S <Thomas.Knuckey@atkinsglobal.com>; Lester Patilla <lpatilla@portoakland.com>; Manuel Moreno <mamoreno@mmm.com>; 'Matthew Russell' <mrussell@ticorp.ca>; Meryl Mandus <mmandus@georgiatolls.com>; Micaela Le Blanc <mleblanc@lawa.org>; Neil Gray <neilgray@ibtta.org>; Page Nottingham <NottinghamP@saccounty.net>; Richard Nelson <richard.nelson@txdot.gov>; Ron Puccinelli <rpuccinelli@portoakland.com>; Samantha Soules <samantha.soules@atkinsglobal.com>; Saro Oliveri <SARO.OLIVERI@CBP.DHS.GOV>; Sheri Thompson-Duarte <Thompson-DuarteS@saccounty.net>; Shirlene Sue <ssue@lawa.org>; Stella Joseph <SJoseph@HNTB.com>; Stephen C Lockhart <slockhart@star-int.net>; Steve Halliday <steve@hightechaid.com>; stewartng@alamedactc.org; Theresa Weekes <tweekes@HNTB.com>; Thomas L. Sheehy <sheehyt@gtlaw.com>; Tyler Patterson <pattert@wsdot.wa.gov>; Vickie Dewey <Deweyv@pbworld.com>

Subject: [EXTERNAL] Title 21 Modifications to Text the Proposed Regulations

To All Concerned:

Caltrans received several comments during the 45-day comment period and the public hearing on the proposed Title 21 regulation. After reviewing the oral and written comments, Caltrans has determined that additional modifications to the originally proposed text of the regulations are necessary. The modified proposed regulatory text and other related documents are available at the following link <http://www.dot.ca.gov/trafficops/tech/title21.html> under the “**Title 21 - Modifications to Text of Proposed Regulations (Additional Comment Period)**” section. Comments on these documents should be submitted in accordance with the Notice of Modifications to Text of Proposed Regulations available at the webpage link above.

The deadline for submitting comments is 5:00 pm on April 12, 2017.

Regards,

Steve Hancock
Division of Traffic Operations
Caltrans
Title.21.Changes@dot.ca.gov

3M security scanners have not detected any malicious content in this message.
Click [here](#) to report this email as spam