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UNITED STATES DEPARTMENT OF TRANSPORTATION

AUTOMATED DRIVING SYSTEMS 2.0: A VISION FOR SAFETY PUBLIC MEETING

1200 New Jersey Avenue, SE
Washington, D.C. 20590

November 6, 2017

9:15 a.m.

Reported by: KeVon Congo

A P P E A R A N C E S

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- Nat Beuse, NHTSA
- Dee Williams, NHTSA
- Deborah Sweet, NHTSA
- Heidi King, NHTSA
- Melanie Brunson, Blinded Veterans Associations
- Henry Claypool, American Association of People with Disabilities
- John Pare, National Federation of the Blind
- Ashley Helsing
- Kayla McKeon
- Carol Tyson, Disability Rights, Education and Events Fund
- Dylan Hedtler-Gaudette, National Federation of the Blind
- Megan Ekstrom, Motorcycle Riders Foundation
- Michael Sayre, American Motorcycle Association
- William Wallace, Consumers Union/Consumer Reports
- Jason Levine, Center for Auto Safety
- Peter Kurdock, Advocate for Highway and Auto Safety
- David F. Snyder, Property Casualty Insurance Association of America

A P P E A R A N C E S (continued)

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Jonathan Weinberger, Alliance for Auto Manufacturers

Paul Scullion, Association of Global Automakers

Andre Welch, Ford Motor Company

Amitai Bin-Nun, Autonomous Vehicles and Mobility

Innovations, America's Securing Future Energy

Timothy Blubaugh, Truck and Engine Association

Mike Cammisa, American Trucking Associations

P R O C E E D I N G S

1
2 MR. BEUSE: My name is Nat Beuse. I'm the
3 Associate Administrator for Vehicle Safety
4 Research and I'd like to welcome you to this
5 morning's listening session on automated driving
6 systems, a vision for safety.

7 We're going to go through a few housekeeping
8 items just real quick. And I would introduce
9 Debbie Sweet and Dee Williams, who are going to
10 co-chair this meeting with me. And we'll also
11 have our Deputy Administrator who will stop by to
12 give remarks.

13 Without further ado, Debbie, please walk us
14 through that.

15 MS. SWEET: All right. Thanks, Nat.

16 Good morning, and thank you very much for
17 coming here this morning. Again, my name is
18 Debbie Sweet and I work in vehicle safety research
19 here at NHTSA.

20 Before we get started, like we said, we want
21 to cover a few housekeeping things. Bathroom,
22 catty-corner from this back door. If there's an

1 emergency and we need to exit the building, you
2 can hit any of these three doors, walk back
3 towards the atrium and then there's exits on both
4 sides. So just in case we need to do that.

5 If we can ask everyone to silence their cell
6 phones, please, if you haven't already done so.
7 We have webcast and we just want to make sure that
8 the audio is clear. In addition, for those
9 speaking, if you can please speak into the
10 microphone to make sure that we get it captured as
11 well.

12 We do have an overflow room. It's pretty
13 crowded in here today, so if anybody needs a
14 little bit more space, you're welcome to go to
15 Conference Room 3, which is going to be back down
16 this hall and almost to the very end on the left.
17 Conference Room 3 is an overflow room. That's
18 going to have the listening session via webcast.
19 You're welcome to take a seat in there if -- if
20 you need a little bit more space.

21 As we move through the morning, we're going to
22 be calling registered speakers by name. We have,

1 as of now, one person on the phone that we'll let
2 go first. And then if you registered to speak,
3 I'm going to ask you to come to the podium up
4 front. Again, speak into the microphone. All
5 comments should be directed towards the NHTSA
6 staff. If we have questions for follow up, we'll
7 just ask a couple questions at that time.

8 We'll go through all the registered speakers
9 first and then we'll open the floor for anyone
10 else who would like to provide comments. Again,
11 we ask that you restrict your comments to five
12 minutes so that we can make sure that everybody
13 has an opportunity to speak today.

14 We are going to run through the technical --
15 or through the volunteer guidance for ADS first,
16 comments on those, and then set aside, we have a
17 little bit different time for the technical
18 assistance [inaudible].

19 We have a break scheduled tentatively, but
20 if -- we're just going to kind of play it by ear
21 as far as timing goes so that we can go ahead and
22 do the break as necessary.

1 Before I -- before we begin, we want to go
2 ahead and make sure everyone is aware that we have
3 three dockets open right now, that everyone has
4 the numbers. I had them up on the slide earlier,
5 so hopefully you had a chance to take a look.

6 Three dockets open right now; one is for general
7 comments on ADS 2.0, that closes on November 14th.
8 The second is the PRA for ADS 2.0, that closes
9 also on November 14th. We have a third docket
10 that was opened subsequent -- or in conjunction
11 with the voluntary safety self-assessment public
12 meeting that we had a couple weeks ago, and that
13 closes on December 18th. Docket numbers, if you
14 need them, I can hand them to you again and put
15 the slide up at the end of the meeting, if you'd
16 like to look at the docket numbers.

17 I also want to bring to everyone's attention,
18 if you're not already aware, that we have a lot of
19 information on our NHTSA website regarding
20 automated driving systems, so [NHTSA.gov/AV](https://www.nhtsa.gov/AV) is our
21 main consumer webpage. I do want to make sure
22 that everyone is aware that there is a

1 differentiation between some of our information on
2 the web regarding ADS and advanced technologies in
3 general. So when you go to the AV website, it's
4 going to direct you to the consumer-targeted
5 website. Accessible through the manufacturers'
6 section on our web as well as on that main AV
7 website is a guidance resources document, and
8 that's going to provide the ADS 2.0 itself as well
9 as some Q and A, information about public
10 meetings, [inaudible] register notices and the
11 like. So please go and take a look at that
12 information as well. And if you have questions or
13 comments, please make sure that we're aware of
14 them.

15 I think that covers general information and
16 housekeeping. So to get us started this morning,
17 it's my pleasure to introduce you guys to NHTSA's
18 Acting Administrator, Heidi King. It's been a
19 pleasure having Heidi here at NHTSA so far. It's
20 evident that she really cares about what we're
21 doing here at the agency. She's really thirsty
22 for knowledge and continuing in our efforts

1 towards safety. So we appreciate her stopping by
2 this morning. And with that, please welcome Heidi
3 King.

4 MS. KING: Thank you very much. And good
5 morning and happy Monday, everybody. It is
6 Monday, right?

7 It's very much my honor to be with you here
8 this morning. Thank you to the team for making
9 the opportunity for me to come say hello and
10 welcome you and to have some time with you to hear
11 your comments.

12 As you know, we're here to discuss the
13 automated driving systems 2.0 guidance of vision
14 for safety. Couldn't be more excited. A vision
15 for safety, as you know, was released a couple of
16 months ago, taking into account the many comments
17 we received after last year's guidance, 1.0, was
18 issued. We tried very hard to listen from your
19 feedback, from other's feedback, from state and
20 local governments, and those comments are
21 reflected in the draft 2.0 that you have now that
22 we're discussing today.

1 As you know, it offers a path forward for the
2 safe deployment of autonomous vehicles. Safety at
3 NHTSA is our very first priority. It's a very
4 first priority for almost all of us. So please
5 keep that in mind in your comments, and you'll
6 continue to hear that theme from us. When we're
7 in times of rapid technological change, it's more
8 important than ever to be mindful of safety.

9 The safe deployment of vehicles and the 2.0
10 guidance, we're encouraging new entrance into the
11 space, encouraging ideas that deliver safer
12 vehicles. We're creating a flexible framework to
13 help match the pace of private sector innovation
14 with government action. We're supporting industry
15 innovation and encouraging open communication.

16 The 2.0 guidance, in identifying best
17 practices from around the country and offering
18 technical assistance to State legislatures will
19 hopefully create a place and a room and a
20 structure for the dialogue as we move through this
21 exciting time together.

22 So as I mentioned, the 2.0 guidance is

1 reflecting the comments and feedback we received
2 from last year's guidance. Let me note that 2.0
3 is not a static document. A vision for safety is
4 not a static document. We are here today to hear
5 your feedback, to incorporate it and think about
6 our next steps forward; to gather more information
7 together, to continue moving forward together. We
8 hope to hear from you, from all of you. I know
9 that many of you are speakers here today. While I
10 will not be able to be in the room with you, many
11 of us are upstairs watching online as best as
12 we're able. But anyone in this room and the
13 others engaged in the industry, we hope to hear
14 from you as well; if not today, at some point in
15 the near future.

16 We're at a point now where we're not just
17 receiving comments on a guidance, we're actually
18 implementing the guidance. We're not just
19 presenting it, we're living it. We've seen one
20 company already move forward with their safety
21 report, with their voluntary safety self-
22 assessment, including discussion of all 12 safety

1 elements in their document. We're excited to see
2 the first mover and we're looking forward to
3 seeing more.

4 So welcome today. Happy Monday. We look
5 forward to hearing your comments today. I see the
6 room is very full with even more participants
7 joining us by webcast.

8 As you know, our goal at the Department of
9 Transportation is to help usher in this new era in
10 transportation innovation and safety, ensuring
11 that our country remains a global leader in
12 autonomist technology development. Efforts like
13 this listening session, collaborating with
14 stakeholders, this is how together we will stay on
15 top of and in step with moving forward together.
16 We are eager to hear from you today, from all of
17 you, and look forward to working together in the
18 coming year. Thank you.

19 MS. SWEET: So thank you, Heidi, for those
20 comments.

21 We're going to start now with the listening
22 session. Our first presenter is Melanie Brunson.

1 She's going to join us on the phone. So we're
2 going to make sure that the AV is working okay.
3 So give us a second.

4 MS. WILLIAMS: Are you there?

5 MS. BRUNSON: I am.

6 MS. WILLIAMS: Wonderful. And can you hear us
7 okay?

8 MS. BRUNSON: I can hear you fine.

9 MS. SWEET: Okay. Perfect. Whenever you're
10 ready.

11 MS. BRUNSON: Good morning and thank you for
12 the opportunity to speak with you today. I'm
13 sorry that I couldn't be in the room with
14 everyone. But I am here to represent the Blinded
15 Veterans Associations. Our members are very
16 interested and, frankly, excited about the
17 automated vehicle technology as a means of helping
18 to remove one of the most intransigent barriers
19 that people who do not drive have faced, and that
20 is access to transportation.

21 Transportation has been a -- the lack of
22 transportation has been a barrier to full

1 participation in everything from healthcare to re-
2 employment after folks return to civilian life
3 following military service. So there are a number
4 of reasons why this technology of great interest
5 as a means of circumventing some of these
6 barriers.

7 We are followers of the technology, pleased
8 with the direction that NHTSA has been taking.
9 The approach seems reasonable. I think the only
10 thing that I would say is that it is our hope that
11 the voluntary nature of the guidance does not
12 prevent NHTSA from being proactive in terms of
13 getting the word out about the value of this
14 technology as a -- as a means of improving safety
15 as well as improving access to community and full
16 participation in society for non-drivers because
17 there is always resistance to change, even good
18 change, due to fear and due to lack of
19 information. And NHTSA can be a good source of
20 that information to help smooth some of the rough
21 edges in the transition that are likely to occur
22 as the technology evolves. Well, it doesn't even

1 evolve, it's like it is moving fairly fast-paced.
2 And sometimes the concerns can't keep up with the
3 innovation. So we hope that NHTSA will be
4 proactive as an intermediary between public -- the
5 public and the industry in terms of making sure
6 that the benefits are, in fact, there and, in
7 fact, are known to help to public so that the
8 transition to the acceptance of this technology as
9 a safe means of transportation can be -- can be
10 more widespread because there's already a lot of
11 talk about the potential for things to go wrong.
12 And while that potential certainly is there, NHTSA
13 can play a good role in terms of helping industry
14 to minimize it as well as helping the public to
15 accept the technology.

16 So we just encourage that as the process moves
17 forward, and we look forward to the advent of this
18 technology as time goes on. So thank you very
19 much for the opportunity to -- to raise this
20 concern, but also thank you for the work that
21 you're doing to help to bring this technology into
22 greater acceptance and greater use. We look

1 forward to it as time passes.

2 MS. SWEET: Wonderful. Thank you. Thank you,
3 Melanie.

4 MS. BRUNSON: Thank you.

5 MS. SWEET: And is Susan on the phone? Okay.
6 We'll check again for her.

7 Next I'd like to ask Henry Claypool for his
8 comments. Mr. Claypool?

9 MR. CLAYPOOL: Hello. I'm Henry Claypool, a
10 policy consultant to the Americans -- or the
11 Association -- excuse me -- the American
12 Association of People with Disabilities. I swear
13 I know them.

14 AAPD really appreciates the opportunity to
15 provide comment here. So they'll be directed at
16 NHSTA, but just the opportunity to put a few
17 things on the record is something we deeply
18 appreciate.

19 First of all, AAPD would like to see level 4
20 and above automated vehicles operating on public
21 roads as soon as it is safety possible. We seek
22 direct engagement with the automobile

1 manufacturers, with plans to deploy level 4
2 vehicles in the next few years, to ensure that
3 accessibility issues are addressed. And NHTSA
4 needs to make clear that existing safety standards
5 are not barriers to efforts to design, build,
6 test, deploy fully autonomous, fully accessible
7 vehicles.

8 So AAPD believes that this technology will
9 make it safer for all people to travel on public
10 roads, especially those of us with limited
11 transportation options. We also believe that
12 industry, government and consumer groups should
13 work together to insure that level 4 autonomous
14 vehicles are safely operating on public roads as
15 soon as possible.

16 With major automobile manufacturers stating
17 that they have an -- they have autonomous vehicles
18 operating at level 4 on public roads early in the
19 decade, we assume that the design work for these
20 vehicles is well underway. We urge the automobile
21 industry to engage directly with consumer groups
22 like the Americans with -- the AAPD and a host of

1 others that you'll hear from today, to engage
2 directly with these groups to understand the
3 accessibility needs.

4 We feel strongly, due to the limited evidence
5 of automobile manufacture -- the limited evidence
6 that automobile manufacturers are working to
7 create accessible AVs today. We're concerned that
8 certain populations will not be able to benefit
9 from this technology if very specific design issues
10 are not addressed. If NHTSA can be helpful in
11 facilitating conversations around the
12 accessibility of AVs, we welcome that.

13 As NHTSA is updating testing protocols for
14 AVs, the agency should identify standards that are
15 barriers to creating accessible vehicles. So
16 wherever you can find a potential safety standard
17 that might prevent a manufacturer from moving
18 forward, we would appreciate you flagging that for
19 them and us.

20 Also, NHTSA should solicit input from those
21 entities designing and building AVs on the
22 barriers they encounter to building accessibility

1 into these vehicles. The creation of a wheelchair
2 accessible AV presents some significant design
3 challenges. NHTSA should consider establishing a
4 special work stream to support industry in its
5 efforts to deploy an AV able to transport people
6 that sit in their wheelchairs while they are in
7 transit. It's been a struggle when we look at how
8 the key NC's [phonetic] are operating and their
9 ability to provide a wheelchair accessible option,
10 and since we understand that the early phases of
11 AVs will deploy in a fleet manner, we assume that
12 we'll encounter those same challenges.

13 So we need to have a greater deliberation
14 around how we're going to serve that population
15 that relies on a wheelchair while in transit.

16 So, again, thank you for the opportunity.

17 MS. SWEET: Thank you, Mr. Claypool.

18 Thank you. Next, if I could ask Mr. John Pare
19 to come to the microphone.

20 Thank you.

21 MR. PARE: Hello. My name is John Pare and
22 I'm the Executive Director for Advocacy and Policy

1 at the National Federation of the Blind.

2 I want to begin by commending NHTSA for its
3 fine work on the pedestrian safety enhancement
4 act, that final rule went into effect just
5 recently, and say that this -- the work on the
6 pedestrian safety enhancement act can be a
7 paradigm for how we can work together on AV
8 technology. And the key here will be the
9 partnership between NHTSA and the various car
10 companies and the disability community, blind
11 people. Just like we did for the pedestrian
12 safety enhancement act, we had a tremendous team
13 effort to try to create that with those legs of
14 the stool being NHTSA, car companies, disability
15 groups. And I think we can do that now, and I
16 think we are doing it now. We had a meeting about
17 ten days ago at the National Federation of Blind
18 with participation from the three legs of the
19 stool, NHTSA and many car companies with strong
20 representation from the Alliance of Automobile
21 Manufacturers and many disability groups, and we
22 had a productive discussion. And I think today's

1 meeting reflects that. So I want to thank you and
2 encourage that we continue because I see this as
3 the first not the -- a first step, certainly not
4 the last step, in a ten-year conversation.

5 Certainly, as you heard from Melanie earlier,
6 AV cars represent a particular benefit to people
7 who don't currently drive, like blind people.
8 Blind people get around today using mass transit
9 and other things. We don't have the
10 transportation flexibility that autonomous
11 vehicles will present. So we are particularly
12 interested in moving forward as quickly as
13 possible, just as Henry has indicated, as soon as
14 level 4 and 5 vehicles can be safely on the road
15 the better.

16 It affects a large number of people.
17 According to the American Community Survey from
18 the Census Bureau, 6,833,000 -- there are
19 6,833,000 blind people in the United States. And
20 in terms of worldwide, there's 253,000,000 blind
21 people who are unable to drive due to their vision
22 that would benefit from autonomous vehicles.

1 Certainly there's many other people who don't
2 currently drive who will also benefit from
3 autonomous vehicles. So this work is incredibly
4 important.

5 For blind people, there's probably two key
6 things to keep in mind, and I think some of my
7 colleagues that will come after might give more
8 details on these, but the first will be that there
9 shouldn't be any requirement -- today when you get
10 a driver's license for a regular car, certainly
11 the idea that you'd have to take an acuity test
12 makes sense, but with cars that drive themselves,
13 any concept of an acuity test for your eyes
14 doesn't make any sense. So we want to make sure
15 that there's no barriers in any way to getting
16 whatever type of operators' licenses that need to
17 be obtained to operate these vehicles for blind
18 people.

19 And second, that they are fully accessible
20 through various tactile and audio interfaces.
21 This is actually very easy to do, so it's not --
22 it's not a big ask, but it needs to be clearly

1 defined and the work in guideline 2.0 is a good
2 start. I think we need to keep refining that and
3 putting more details to make sure car companies
4 know exactly what it means to make sure things are
5 compliant, not only in instructing a car where it
6 needs to go, but making sure that you can monitor
7 progress and operate other things like the air
8 conditioning and the radio and so forth.

9 We look forward to working together on all of
10 these things and appreciate the opportunity today
11 to provide these comments.

12 MS. SWEET: Thank you, Mr. Pare.

13 All right. Next I'd like to ask Ashley
14 Helsing, along with Audrian Forsyth [phonetic] to
15 please come forward.

16 MS. HELSING: Thank you. Audrian actually
17 couldn't make it today so I brought my other
18 colleague, Kayla.

19 MS. SWEET: Kayla?

20 MS. HELSING: Kayla McKeon.

21 MS. SWEET: Welcome.

22 MS. McKEON: Thank you.

1 MS. HELSING: So thank you so much first and
2 foremost for having us today. AVs will make a
3 huge difference for the Down Syndrome community
4 and for the intellectual disability community at
5 large. It, you know, will be really important
6 that -- that safety standards are, of course, up
7 to -- up to snuff and that caregivers and parents,
8 family members are all aware of those -- of
9 those -- of those safety standards and the like.
10 AVs will mean significant more -- significantly
11 more independence for the Down Syndrome community.
12 Transportation is a huge barrier for employment of
13 people with Down Syndrome. That's one thing that
14 my organization is working a lot right now is
15 getting people with Down Syndrome jobs, and that
16 is identified as a really large barrier.

17 We're very lucky here in D.C. to have, you
18 know, the public transportation and things that we
19 do have, but for most of the country that is not
20 the case. So AVs will make -- will make a huge
21 difference.

22 Now I'll hand it over to Kayla for the self-

1 advocate perspective.

2 MS. McKEON: Thank you, Ashley. And -- thank
3 you, Ashley. And thank you for having us here
4 today. We feel as a self-advocate that, yes,
5 maybe some of us can drive, some of us can't.
6 It's on the physicalities of someone with Down
7 Syndrome may not be up to speed on everything.
8 That we feel like this would benefit in the long
9 run. Maybe we don't have all those things you
10 [inaudible], but with that, I can see it. So
11 let's get on the same page here, right? And
12 collaborate as much as we can and really get this
13 going.

14 Thank you.

15 MS. SWEET: Thank you, Kayla. Thank you,
16 Ashley.

17 All right. Is Carol Tyson here to speak
18 today?

19 MS. TYSON: Hi. Thank you for allowing me the
20 opportunity to speak, and I want to support the
21 comments from the other members of the disability
22 community as well.

1 I'm here representing the Disability Rights,
2 Education and Events Fund. We're based in
3 California, a leading national civil rights law
4 and policy center directed by individuals with
5 disabilities and parents who have children with
6 disabilities.

7 Automated driving systems have the potential
8 to dramatically improve the lives of people with
9 disabilities, but the promise and safety of these
10 systems will only be realized if the cars are
11 truly accessible and the safety elements take into
12 consideration the needs of people with
13 disabilities. There is no -- no substitute, as
14 we've heard, for gathering input directly from
15 users with disabilities.

16 To that end, DREEF encourages the following on
17 the front end rather than the back end, which will
18 cost a lot more money as -- as we know.

19 So I went through and looked at each of the
20 safety elements, and I'm not going to speak to
21 each one, but I did want to mention a few -- a few
22 ideas that we have.

1 On the operational design domain, in addition
2 to when and where the vehicle is designed to
3 operate, we would recommend including who the
4 vehicle is designed to transport. For example,
5 whether or not it can accommodate a person who's
6 using a manual or power wheelchair.

7 On the human machine interface, the current
8 guidelines encourage consultation with the
9 disability community in the design of the HMI and
10 we're grateful for that, though I would love it to
11 see because right now it's a footnote, if you
12 could pull that into the main guidelines. But we
13 believe people with disabilities will have final
14 design and process recommendations across all of
15 the safety design elements and we would hope that
16 you could encourage the engagement of the people
17 with disabilities and testers across all of the
18 safety elements and not just in the HMI.

19 Let's see. In crashworthiness, please
20 recommend consideration of people of all shapes
21 and sizes, wheelchair users and guide dogs when
22 these testing -- when the testing is happening.

1 Post-crash AVS behavior. Please consider
2 recommending a transparent process and plan for
3 post-crash behavior. Whether and when state or
4 local police or an ambulance will be alerted
5 should be clear to operators and passengers before
6 they get in the car. So understanding when that
7 engagement will take place.

8 Data reporting. For after a crash has
9 happened, I would ask you to consider nothing
10 whether there is a sidewalk on that street where
11 the crash happened, if it isn't on a highway. And
12 I think that in other areas around DOT work,
13 particularly pedestrian, bicycle safety, that will
14 prove useful in the future.

15 And then consumer education and training.
16 Please consider recommending disability
17 sensitivity training for entity, staff, marketers,
18 dealers and distributors. Recommend that
19 materials be available in accessible formats,
20 including braille and if there are videos, make
21 sure they're captioned.

22 On the best practices for state highway

1 officials, for recordkeeping, please consider
2 encouraging collection of accessible data,
3 including the number of available wheelchair-
4 accessible vehicles once those have been designed
5 and are available.

6 And vehicles with additional accessibility
7 features, identifying ways in state recordkeeping
8 and a collection of upgrades post-sale information
9 can help the disability community and DOT in the
10 future identify unmet needs in different areas.

11 And then on liability and insurance, please
12 consider recommending that liability and insurance
13 laws must preclude discrimination on the basis of
14 disability. People with disabilities should not
15 be required to pay higher insurance rates and
16 should not be considered more liable in crashes.

17 Let's see, last thing. The voluntary self-
18 assessment template, please consider encouraging
19 an assessment of how people with disabilities will
20 be protected in the vehicle and accessibility
21 features, including HMI, that will increase the
22 safety of people with disabilities.

1 Thank you for this opportunity. We believe
2 that keeping people with disabilities in mind at
3 every step will be crucial to making sure this is
4 safe for people with disabilities and does sort of
5 lift up that promise that we keep seeing in the
6 press of increasing access to people with
7 disabilities. And I think this is even more
8 important because NHTSA is encouraging non-
9 traditional stakeholders to be involved and I
10 think it's already been mentioned, we've sort of
11 been -- the disability community has been through
12 this with the Uber and Lyft and sort of non-
13 traditional folks who are new to scene who had
14 said in the past that they just didn't know, they
15 didn't understand what the disability community
16 needed. And so now we know, you know, that we
17 need to have some engagement throughout the
18 process, and NHTSA can help us with that, so thank
19 you very much for the opportunity.

20 MS. SWEET: All right. I'd like to ask Dylan
21 Hedtler-Gaudette, please. Dylan.

22 MR. HEDTLER-GAUDETTE: Good morning. Thank

1 you for convening this event. Thank you to NHTSA
2 and to Secretary Chao for all of the work that you
3 all have been doing in this area.

4 I want to start by adding a couple of powerful
5 and illustrative data points to just how impactful
6 autonomous vehicles can be for the disability
7 community. One of our previous speakers,
8 actually, Mr. Henry Claypool, worked on a report
9 in collaboration with some other organizations
10 that really looked at how powerful autonomous
11 vehicles can be for people with disabilities, and
12 there are two particular kind of high level
13 takeaways from that, one of which is that about
14 \$19 billion in wasted medical costs could be saved
15 through the advent of autonomous vehicles. That
16 happened largely as a result of missed medical
17 appointments and medical complications that can
18 arise from those missed medical appointments,
19 which in turn end up costing more money. So
20 \$19 billion, I think we would all like to have an
21 extra \$19 billion in our pocket.

22 Also, 2 million employment opportunities could

1 be opened up to the disability community. It's --
2 it's a sad, but true fact that employment is still
3 a lagging indicator in the disability community.
4 It is a challenge. One of the ways that that
5 challenge manifests itself is through lack of
6 access to reliable transportation. So the advent,
7 again, of autonomous vehicle technology could help
8 to alleviate part of that challenge in the
9 disability community.

10 I won't spend too much time sort of
11 elaborating anymore about the benefits of
12 autonomous vehicles to the blind and others with
13 disabilities. I think the people who preceded me
14 did a good job of doing that.

15 What I would like to speak to a little bit is
16 how NHTSA and other stakeholders can be productive
17 partners in this space, vis-à-vis, the disability
18 community. I think it's important to remember
19 that accessibility and safety are inextricable.
20 They are mutually reinforcing, but we do need to
21 keep in mind that we can't allow the one to be
22 sacrificed at the altar of the other. And

1 specifically I mean that we cannot allow
2 accessibility to be sacrificed in the name of
3 safety. It is, of course, true that safety is of
4 paramount importance here. When more than 37,000
5 have died due to vehicle-related crashes in 2016,
6 I think it's pretty clear that safety is critical.
7 But accessibility is also critical. We are
8 absolutely positive that accessibility is
9 indispensable to safety. It is true that the more
10 accessible and inclusive a vehicle is from the
11 ground up, the more likely it is to also be safe.

12 Speaking of safety and accessibility, again,
13 though, one thing we also need to avoid is
14 paternalism. We in the disability community do
15 not need to be told that we are being protected
16 and as result we therefore must wait to have
17 access to autonomous vehicles. What we are
18 insisting on is equal access from the outset, and
19 the only way we get to that point is through
20 substantial proactive collaboration and engagement
21 from the ground up. And that is what we're doing
22 here today. So I just want to again stress and

1 highlight how much we applaud and commend NHTSA
2 and other stakeholders for being involved in these
3 conversations, for hosting these dialogues.

4 As my colleague, John Pare mentioned, we, the
5 National Federation of the Blind, did host the
6 first of its kind convening of a broad swath of
7 stakeholders to speak to this very issue, and we
8 did that about ten days ago. So this is very
9 timely. But those conversations and that
10 engagement needs to continue. And we also need to
11 continue on the legislative front. I'm sure
12 everyone in this room is aware that there have
13 been autonomous vehicle bills moving in both the
14 House and the Senate. The House actually passed
15 its bill. The Senate recently got its bill out of
16 the Commerce Committee, so we're seeing progress.

17 We at the National Federation of the Blind
18 strongly support the Senate bill in particular
19 because, as I have been highlighting here, it
20 recognizes that accessibility is a key component
21 of all of this. Accessibility and access are --
22 are included all throughout the Senate bill and we

1 were happy to be a part of that process.

2 So the upshot is that we in the disability
3 community are extremely excited about this
4 technology and the promise that it holds to
5 enhance independence and promote opportunity. And
6 we stand ready to be an active and engaged partner
7 with the rest of you, and we hope that you stand
8 willing and ready to do the same. Thank you.

9 MS. SWEET: Thank you, Dylan.

10 MR. BEUSE: Dylan, you can go back to your
11 seat. I just have one comment, either for you or
12 Henry, just for the benefit of everybody else. I
13 know I have a copy of that report, but those
14 online may not. So if you guys could just make
15 sure that gets into the docket at some point, I'd
16 appreciate it.

17 MS. SWEET: Great. Is Megan Ekstrom here
18 today? Megan, if you could come forward, please.

19 MS. EKSTROM: Hi. My name is Megan Ekstrom
20 and I'm the vice president of government affairs
21 for the Motorcycle Riders Foundation. The
22 Motorcycle Riders Foundation, or the MRF, we

1 provide leadership for state's motorcyclists,
2 riders associations as well as motorcycle clubs
3 and individual riders. And through our state
4 partners and affiliates, we have a network of over
5 250,000 motorcycle riders.

6 We're chiefly concerned with issues at the
7 national and international levels that impact the
8 freedom and safety of American street?
9 motorcyclists and the regulations and policies
10 surrounding autonomous vehicles in certainly one
11 of these areas.

12 I'd like to start by thanking NHTSA for
13 hosting this listening session and taking the
14 steps to approaching this next generation of
15 technology through an open, transparent and
16 collaborative process. However, in reviewing the
17 most recent guidelines, we did note that
18 motorcyclists were mentioned only twice in the 36-
19 page document and only in the context of being
20 under NHTSA's jurisdiction and under Point 6 of
21 Section 1, the human machine interface.

22 While we recognize and appreciate this attempt

1 at being inclusive, we continue to be a little bit
2 apprehensive that the unique characteristics of
3 motorcyclists and their road etiquette is far
4 different from that of other types of vehicles and
5 road users.

6 With the latest statistics suggesting that
7 there are over 8.5 million riders on our nation's
8 highways, it is critical that this unique group of
9 roadway users be included in future guidance,
10 specifically as it relates to object and event
11 detection. This will not only be important for
12 future automated technologies such as SAE
13 automation Levels 3, 4 and 5, but it is currently
14 a concern for Level 2 vehicles already on our
15 nation's roadway.

16 In March of this year a Tesla on autopilot
17 crashed into a stopped police officer on his
18 motorcycle in Arizona. The officer, who was in
19 front of the Tesla driver, stopped for a stoplight
20 and after stopping briefly, the Tesla began to
21 move forward, prompting the officer to jump off
22 his motorcycle and move away. The car then struck

1 the fallen motorcycle, and it's incidents like
2 these that have motorcyclists very rightfully
3 concerned about the emergence of autonomous
4 vehicles.

5 Today my comments specifically surround Point
6 3 of Section 1 of the guidance, which is the
7 object and event detection and response. We were
8 pleased to see the encouragement for automakers
9 and other entities to have a process for
10 assessment, testing and validation of OEDR
11 capabilities. However, we were disappointed to
12 see that when listing the groups of road users in
13 which OEDR function should be able to detect and
14 recognize, the following groups were listed:
15 Pedestrians, bicyclists, animals and other
16 objects. Motorcycles were not listed.

17 The MRF strongly urges NHTSA to press
18 automakers to consider the unique attributes of
19 motorcyclists and include this growing population
20 of roadway users to be a key consideration when
21 developing any sort of assessment, testing and
22 validation documentation as it relates to safety.

1 We would also encourage NHTSA to guide
2 automakers to include motorcyclists in pre-crash
3 scenarios, especially those of the left-hand turn
4 category, which is one of the leading
5 circumstances in motorcycles crashes.

6 Finally, we would ask that NHTSA and other
7 parties include the motorcyclist population when
8 determining consumer and public education and
9 awareness campaigns. And approximately out of 1
10 out of every 36 people in America rides a
11 motorcycle. And it's imperative that this segment
12 of the population is a part of any conversation
13 concerning guidance, regulations or policies
14 related to autonomous vehicles as our riders will
15 be directly affected by this technology.

16 On behalf of our network of motorcycle riders
17 in the U.S., we applaud the promotion of
18 innovation, but it cannot be to the detriment of a
19 population of 8.5 million roadway users. We hope
20 and look forward to working with NHTSA to insure
21 that the unique needs and requirements of
22 motorcyclists across the U.S. are being considered

1 and accounted for as the agency moves forward with
2 future policies that address autonomous vehicles.

3 Thank you.

4 MS. SWEET: Megan, I have a question for you.
5 You mentioned a specific incident. Was your
6 organization made aware of any incident involving
7 a motorcycle and automated driving systems
8 currently?

9 MS. EKSTROM: So apart from the one incident
10 in Arizona, we have -- we have a couple of
11 anecdotal stories, but that's the only one that
12 made the news.

13 MS. SWEET: Okay. And are you sharing those
14 with others?

15 MS. EKSTROM: Yes.

16 MS. SWEET: Okay.

17 MS. EKSTROM: Yes.

18 MS. SWEET: Okay.

19 MS. EKSTROM: Absolutely.

20 MS. SWEET: Okay. Thanks.

21 Michael Sayre? I don't know if I pronounced
22 that right. Correct me if I said that wrong. I

1 apologize.

2 MR. SAYRE: That's all right. Thank you. I'm
3 Michael Sayre. I'm the [inaudible] relations
4 manager for on-road issues for the American
5 Motorcycle Association, and we would like to thank
6 NHTSA for hosting this listening session and for
7 providing the riding and driving public the
8 opportunity to comment on this important issue.

9 Founded in 1924, the non-profit AMA is the
10 premier advocate of the motorcycle community and
11 represents the interests of millions of on and
12 off-road motorcyclists and off all-terrain ve --
13 well, all-terrain vehicle riders. Our mission is
14 to promote the motorcycle lifestyle and protect
15 the future of motorcycling. Reducing traffic
16 crashes involving motorcycles and decreasing the
17 number of motorcycle operators and passengers
18 injured or killed each year is a top priority of
19 the AMA. Through a comprehensive approach, and it
20 includes promoting rider education, the use of
21 personal protective equipment and increased
22 motorist awareness and discouraging impaired

1 motorcycle operation, the AMA seeks to enhance
2 motorcycle safety in transportation and
3 recreational activities.

4 While the AMA is heartened to see that
5 motorcyclists have been mentioned in the automated
6 driving systems document, we believe more should
7 be done to insure automated driving systems can
8 properly interact with our nation's more than
9 8.5 million motorcyclists. We must insure that
10 automated driving systems can safely and reliably
11 interact with motorcyclists on the road. The AMA
12 urges NHTSA to work with manufacturers, software
13 developers and other entities to create testing
14 procedures that can verify the ability of this
15 technology to safely interact with motorcyclists
16 on the road.

17 With the proliferation of advanced
18 technologies and passenger vehicles and light
19 trucks, the AMA needs assurances that the federal
20 automated vehicle policy includes motorcyclists as
21 an important part of its plan.

22 Thank you for the opportunity to make comments

1 on this issue of vital importance to
2 motorcyclists. Thank you.

3 MS. SWEET: All right. William Wallace, if
4 you can come to the microphone, please.

5 MR. WALLACE: Good morning.

6 MS. SWEET: Good morning.

7 MR. WALLACE: Consumers Union, policy division
8 of Consumer Reports, an independent non-profit.
9 Thanks for the opportunity to share oral comments
10 on the voluntary guidance for automated driving
11 systems. We share our thoughts on a few subjects
12 today and will make additional comments in
13 writing.

14 At CR and CU, we see enormous potential for
15 automated driving systems to make our roads far
16 safer and to greatly improve mobility. In
17 developing and rolling out these systems, we have
18 heard today that safety is the top priority, as it
19 should be. But companies should show the public,
20 not just tell them, that it is their top priority
21 too. That means sharing their safety data and
22 being more transparent overall.

1 Greater disclosure would help companies build
2 trust in their products, which right now is
3 lacking. For example, preliminary survey results
4 released by MIT researchers in May indicated that
5 only 13 percent of respondents would be
6 comfortable with fully a fully autonomous car.
7 Down 10 percentage points from last year.

8 Transparency builds trust and no company
9 should be afraid of transparency if they are
10 putting safety first. Recent history provides all
11 the more reason to be transparent. Whether it's
12 because of GM ignition switches, Takata airbags or
13 Volkswagen emission software, consumers are not
14 necessarily going to immediately trust auto
15 companies when it comes to something as
16 fundamental as handing over the driving task.
17 Consumers are not necessarily going to assume that
18 what companies are saying about the safety of
19 automated driving systems is true. They're going
20 to want to proof.

21 With that in mind, we strongly encourage
22 entities to implement, follow and surpass NHTSA's

1 guidelines. All stakeholders should work together
2 to develop a template for exactly what kind of
3 data would be critical to provide to assure safety
4 with regard to each element in the guidance.

5 Stakeholders should agree on a standard for
6 regularly and rapidly updating assessments given
7 that we are in an era in which vehicle features
8 can change overnight.

9 Altogether this effort would help insure that
10 NHTSA, states, researchers and consumers have the
11 information they need to verify that automated
12 driving systems are safe. For consumers to
13 benefit, it would be particularly important for
14 NHTSA to insure there is a functioning online
15 repository for assessments and that consumers are
16 made aware of its availability.

17 This exercise to implement NHTSA's guidance
18 also could help identify and limit the information
19 related to automated driving systems that
20 constitute true trade secrets. We strongly urge
21 the narrowest possible definition of confidential
22 business information. After all, transparency

1 should be each company's friend. We know there's
2 a lot of money to be made and competition is
3 fierce, but the competitive push should not
4 overwhelm the importance of transparency and
5 cooperation for safety. That will come back to
6 bite the industry. The last thing we need is for
7 automated driving technology to be slowed down
8 because an irresponsible actor threatened safety
9 and turns the public sharply against this
10 technology.

11 Companies also should not limit themselves in
12 the submission of a safety assessment to NHTSA
13 given the consumer need for more information and
14 given that companies should not be satisfied with
15 driving in the future being merely equally safe or
16 only marginally safer than today. With 37,461
17 fatalities last year, the goal has to be
18 dramatically increasing safety. If consumers are
19 no longer going to be primarily in charge of the
20 vehicle, their expectations for safety are not
21 going to be a 10 percent improvement, it's going
22 to come close to expecting no deaths or injuries.

1 While Congress may choose to make safety
2 assessments mandatory, NHTSA has made abundantly
3 clear that as far as the agency is concerned,
4 submission is voluntary. But submitting and
5 making public a safety assessment should not be
6 considered voluntary for companies as they seek to
7 build consumer trust. Automakers should submit
8 and make public the assessments and go beyond what
9 is listed in the guidance to include meaningful
10 evaluation of issues like data sharing, privacy
11 and ethics.

12 In addition, companies should voluntarily
13 submit all applicable information for Level 2
14 automated driving systems. If for no other reason
15 than real world evidence is showing consumers
16 using L2 vehicles as L3 vehicles in a textbook
17 demonstration of foreseeable misuse.

18 Regarding NHTA's responsibilities, we want to
19 use the setting to make clear our view that the
20 agency's research, enforcement and other
21 capabilities should be strengthened significantly
22 through both increased funding and authority.

1 NHTSA should be empowered to protect consumers
2 against new hazards that may emerge and to insure
3 automated systems work as they are supposed to
4 without placing consumers at risk. The agency
5 should be able to do this without being forced to
6 divert resources from critical efforts it already
7 undertakes to prevent crashes and save lives.

8 For NHTSA to be the kind of watchdog consumers
9 deserve, all stakeholders should push for Congress
10 to give the agency more funding and personnel as
11 well as a greater practical ability to get unsafe
12 cars off the road quickly.

13 Thank you for your consideration of our
14 comments, and we look forward to continuing to
15 work with NHTSA, with companies and all
16 stakeholders to insure safety and transparency as
17 automated driving systems move forward.

18 MS. SWEET: Thank you. Is Jason Levine here?

19 MR. LEVINE: Good morning. My name is Jason
20 Levine. I'm the executive director of the Center
21 for Auto Safety. I want to thank the National
22 Highway Traffic Safety Administration for

1 conducting this listening session today.

2 The Center for Auto Safety is the nation's
3 leading independent non-profit organization
4 advocating for auto safety, quality and fuel
5 economy. On behalf of the Center's staff and our
6 thousands of members and supporters across the
7 country, we're pleased to be able to provide input
8 on NHTSA's recently released voluntary guidance
9 for self-driving, non-commercial cars and light
10 trucks.

11 We understand that Secretary Chao has stated
12 an updated version of the policy is already being
13 written for release in 2018. The Center
14 recommends that if the agency is interested in
15 seeing its guidance be implemented, NHTSA exercise
16 its authority under the Federal Motor Vehicle
17 Safety Act and mandate its vision for safety in
18 automated driving systems.

19 Accordingly, the Center has three main areas
20 we would like to recommend regarding how the
21 safety concepts expressed in ADS 2.0 could be
22 implemented as well as some changes that should be

1 incorporated into ADS 3.0. More detailed comments
2 will be submitted in writing.

3 There may never be a more critical moment in
4 the development of self-driving car technology in
5 terms of consumer acceptance. Proponents refer to
6 its potential in almost mythical terms as if the
7 introduction of these vehicles will magically make
8 37,000 yearly deaths disappear overnight. The
9 public, however, is incredibly skeptical. As many
10 as 78 percent of Americans surveyed are afraid to
11 ride in a driverless car; fears seemingly
12 confirmed by last year's death in Florida
13 involving a semi-autonomous Tesla. One more
14 incident could set back the cause of these
15 vehicles a decade or more in terms of public
16 acceptance.

17 Therefore, it would be in the best interest of
18 all stakeholders to make sure that NHTSA,
19 researchers and the public have access to all the
20 necessary data to assure the vehicles are
21 performing as promised. Currently ADS 2.0 states
22 that safety assessment letters are neither

1 required nor is there any mechanism to compel it
2 to submit them. This must change.

3 Next, everyone needs to slow down on when
4 Level 4 and 5 cars will be here and make effective
5 safety features, such as automatic emergency
6 braking, mandatory immediately. While it is fun
7 for CEOs and market analysts to see announcements
8 about new testing plans for robot cars in New York
9 City and San Francisco, the technology is not
10 ready to operate on its own yet. Accordingly,
11 what the Safety Administration should be focused
12 on are areas where existing safety technology can
13 save lives in 2018, not in 2048. In fact, NHTSA's
14 website currently says automated vehicle features
15 already help keep drivers safe, but this is only
16 true when vehicles are equipped with available
17 safety technology. Additionally, the vehicle to
18 vehicle communications rule needs to be brought
19 out of mothballs and made final. It is
20 unconscionable to have a safety rule stall because
21 some entities are interested in making money on
22 the spectrum instead of allowing this bandwidth to

1 be devoted to safety as Congress mandated in 1999.

2 The further advantage of mandating these sorts
3 of safety technologies today is that it will allow
4 for an iterative process which will provide not
5 only safety, but data on how this technology works
6 over large sample sizes when interacting with
7 vehicles that do not have the technology yet.

8 Finally, there's a substantial concern about
9 the safety of Level 3 vehicles and conditional
10 automation which hinges on the ability of drivers
11 to take control of vehicles when necessary. Some
12 researchers, including those at Waymo, have
13 concluded that Level 3 technology is simply too
14 dangerous, even "scary," due to driver inability
15 to resume control of the vehicles when required.
16 NHTSA's guidance remains essentially silent on
17 this problem.

18 If the ADS 2.0 is to meaningful protect human
19 beings while simultaneously encouraging the
20 development of robot cars, Section 5, validation
21 methods, must be amended to explicitly prohibit
22 the testing of Level 4 and Level 5 vehicles on

1 public roads in non-controlled environments unless
2 and until these vehicles have undergone far more
3 simulation testing both in terms of miles and
4 sophistication.

5 In closing, the ADS 2.0 has the right title, a
6 vision for safety, and the Center for Auto Safety
7 stands ready to help in making that vision a
8 reality.

9 Thank you for your time.

10 MS. SWEET: Thank you.

11 MS. WILLIAMS: I just want to make one
12 clarification. I believe you said non-commercial
13 vehicles for the AV guidance. It actually does
14 apply to commercial motor vehicles, trucks and
15 buses.

16 MS. SWEET: All right. Next I'd like to ask
17 Peter Kurdock.

18 MR. KURDOCK: Hi. Good morning.

19 MS. SWEET: Good morning.

20 MR. KURDOCK: Good morning. I'm Peter
21 Kurdock. I'm the director of regulatory affairs
22 for Advocates for Highway and Auto Safety.

1 Advocates is a coalition of public health, safety
2 and consumer organizations, insurers and insurance
3 agents that promotes highway and auto safety
4 through the adoption of safety laws, policies and
5 regulations.

6 Advocates is a unique coalition dedicated to
7 advancing safer vehicles, safer drivers and safer
8 roads. We've always enthusiastically championed
9 technology, and for good reason, it's one of the
10 most effective strategies for reducing deaths and
11 injuries. NHTSA has estimated that since 1960
12 more than 600,000 lives have been saved by motor
13 vehicle safety technologies.

14 In 1991 Advocates of the Coalition had
15 succeeded in putting the airbag mandate in the
16 ISTE Act of 1991. As a result, by 1997 every new
17 car sold in the United States was equipped with a
18 front seat airbag and the lives it has saved have
19 been significant. Advocates continues to build on
20 our successes by promoting life-saving technology
21 and other bills and regulatory proposals. Those
22 efforts included EFC, anti-lock brakes, rear-view

1 cameras and other important safety improvements to
2 passenger vehicles, trucks and motor coaches.

3 According to you all, 37,461 were killed on
4 our nation's roads in 2016. This is an increase
5 of over 5 percent from 2015. AV technologies has
6 the potential to significantly reduce this
7 carnage. However, it is critical that during the
8 next ten years, while self-driving cars continue
9 to be developed and may be deployed, other safety
10 advances which have already been shown to improve
11 safety are not denigrated by the wayside.

12 To the great disappointment of Advocates and
13 others in the safety community, the second
14 iteration of NHTSA's AV policy, which was released
15 in September, is nothing more than voluntary
16 guidance that the industry may completely ignore.
17 In fact, the agency clearly states this guidance
18 is entirely voluntary with no compliance
19 requirement or enforcement mechanism. That
20 language could not clearer. Voluntary guidelines
21 are completely inadequate, in Advocate's opinion,
22 to insure that American families are not put at an

1 unreasonable risk during the testing and
2 deployment of autonomous vehicles. This
3 technology must be subject to an effective
4 regulatory framework that provides for certainty
5 for developers and manufacturers as well as
6 guaranties public safety. The agency we believe
7 must establish uniform testing and performance
8 standards and insure that all AV manufacturers are
9 playing by the same set of rules and providing the
10 same minimal level of safety performance. The
11 optional safety self-assessment proposed in
12 Section 1 of the guidance perfectly illustrates
13 the shortcomings of voluntary guidelines. No
14 matter how comprehensive the structure of the
15 safety self-assessment may be -- it could have
16 used a nicer name -- manufacturers can simply
17 choose not to publish one or provide superficial
18 or incomplete information. In fact, under the
19 guidance the agency states entities are not
20 required to submit a voluntary safety self-
21 assessment, nor is there any mechanism to compel
22 anybody to do so.

1 While Advocates is pleased that Waymo recently
2 released the first safety self-assessment to the
3 public, it's little more than a slick marketing
4 tool, in our opinion. It is certainly not a
5 sufficiently detailed safety document that allow
6 the public, or NHTSA for that matter, to assess
7 the safety of Waymo's technology. While Waymo's
8 safety self-assessment provides a primer on AV
9 technology for the AV novice, it does nothing to
10 inform the tech savvy consumer, let alone motor
11 vehicle safety regulators, about the design and
12 programming choices that were made, how the system
13 actually functions and any shortcomings of the
14 approach chosen by Waymo.

15 Over the last few years, unfortunately
16 automakers have hidden from the American public
17 and regulators safety effects that have led to
18 countless and unnecessary deaths and injuries as
19 well as the recall of millions of vehicles.
20 Undoubtedly, AV technology will not prevent every
21 crash and will not infallible. Where endeavoring
22 to improve safety, we must not replace human

1 driver error with human programming errors,
2 mistakes that could have widespread unintended
3 consequences.

4 Under Section 1 of the guidance, the voluntary
5 safety self-assessment only asks that companies
6 demonstrate they are considering safety. Any
7 defect or setback involving AVs, as Jason
8 mentioned earlier, will severely curtail public
9 acceptance of this technology and risk the
10 progress and promise AVs hold to significantly
11 reduce motor vehicle crashes, fatalities and
12 injuries.

13 A recent study by Pew revealed deep public
14 skepticism about AVs. The majority of those
15 surveyed said they would not ride in a self-
16 driving vehicle. Of those respondents who said
17 they would not ride in an AV, 42 percent said they
18 did not trust the technology, or feared giving up
19 control of the vehicle and 30 percent cited safety
20 concerns; nearly a third.

21 Similarly, a Kelley Blue Book survey released
22 in September found that nearly 80 percent of

1 Respondents believe that people should always have
2 the option to drive themselves, and nearly 1 in 3
3 said they would never buy a Level 5 AV vehicle.

4 Section 1 of the guidance also fails to
5 include Level 2 AVs like the Tesla Model S, the
6 crash that's been mentioned earlier. In Florida,
7 during the NTSV hearing held last month on the
8 crash, the deadly fares of the Level 2 vehicle
9 were identified. Additionally, then TSB found
10 that similar problems also existed in other
11 Level 2 systems besides Tesla across many
12 manufacturers. Therefore, Advocates recommends
13 not only should the manufacturers of Level 2
14 vehicles be covered by the guidance, but that
15 guidance should be mandatory for all AV
16 manufacturers.

17 Unfortunately, the guidance also takes some
18 critical steps backwards from the Federal
19 Automated Vehicle policy released in 2016. The
20 sharing of data which will be critically important
21 to prevent defects as well as assess the safety
22 and performance of AVs is obliquely mentioned in

1 the new data recording segment in Section 1.

2 In addition, consumer privacy, which will be a
3 significant component insuring public acceptance
4 of new technology was only mentioned once in the
5 entire document.

6 In sum, Advocates believes AV technology holds
7 great promise to advanced safety for everyone.
8 However, federal safety oversight and minimum
9 performance standards, not voluntary guidance,
10 will play an essential role in achieving this
11 brave new world of computer-driven motor vehicles.

12 Thank you for the opportunity to provide
13 comments today.

14 Any questions? Okay. Thank you.

15 MS. SWEET: May I have David Snyder come
16 forward, please.

17 MR. SNYDER: Good morning. I want to thank
18 you for the opportunity of holding this session.

19 My name is Dave Snyder. I represent the
20 Property Casualty Insurance Association of
21 America, an organization made up of a thousand
22 insurers and reinsurers from the smallest to

1 global reinsurers that write in more than a
2 hundred different countries.

3 At the highest level, insurers have the
4 fundamental business and social obligation to do
5 three things: Objectively identify risk,
6 objectively price for and finance risk, and third
7 and perhaps most importantly, do our best to work
8 with all other players in society to prevent that
9 risk in the first place. As such, insurers
10 interact with every group here, certainly the
11 public, automobile manufacturers, public officials
12 and, indeed, we share the same breadth of
13 engagement that you and the government have. We
14 share it on the private side and we are partners
15 with you and hope that this is only one step in a
16 dialogue to respond to all of the issues and
17 comments raised today and raised previously.

18 We recognize, as you've heard, there's a huge
19 upside promise for automated vehicles, but we have
20 to deal with the reality that between here and
21 there, there's a real world and that real world is
22 a real world that insurers operate in, as do you.

1 So here are a couple thoughts. First of all,
2 what are the challenges of automated vehicles for
3 insurers? Well, will automated vehicles really
4 mean fewer claims and less severe claims? How to
5 assure strong and effective safety standards and
6 protection in the future. How to assure access to
7 data for legislative and necessary purposes for
8 insurers. For example, we have our own set of
9 regulatory laws that require us to price our
10 products based upon risk and require us to respond
11 effectively and quickly and fairly to claims. And
12 what is the opportunity for us to develop new
13 products to best support these technological
14 developments.

15 In this connection, insurer access to data is
16 key to support our ability to play the role for
17 each and every one of the interested parties. For
18 example, we'll need the ability to identify which
19 vehicles are automated and which aren't. We'll
20 need the ability access vehicle data, pictures,
21 video, for claim investigation and liability
22 determination. We'll need the ability at the same

1 time to protect privacy, cyber security and
2 intellectual property rights and it will be
3 critical for insurers to be able to play our role
4 in the policy process, advisory boards and
5 committees.

6 Now, here's an issue I want to focus on for a
7 minute, safety and insurance. It's absolutely
8 critical that in the course of dealing with
9 automated vehicles and their promise that we not
10 lose focus on today's auto safety issues. We need
11 to address the new safety issues with safety
12 standards as needed. We need to set clearer
13 expectations for the public and technology
14 developers. Exceptions to safety standards should
15 be exceedingly rare and no exceptions whatsoever
16 to crash protection standards. And we need to
17 assure the primacy of state regulation on
18 insurance and liability issues.

19 I want to go back to the promise for a minute.
20 It's undeniable, we support making that promise a
21 reality, but we do no good if we address
22 individual driver errors, but inadvertently create

1 much larger systemic errors. For example, are we
2 really effectively dealing through regulation,
3 through research, through voluntary and mandatory
4 efforts, the potential new threats that could be
5 provided by this technology through glitches in
6 the software or hacking? What we don't want to do
7 is improve the safety on the highway by reducing
8 individual error, but actually introduce systemic
9 error capable of doing significant damage in a
10 split second.

11 And when I say we're concerned with risk,
12 these are the kinds of things we're concerned
13 with.

14 So let me conclude with a couple major points.
15 First of all, on crash worthiness, we urge you to
16 maintain and strengthen the existing occupant
17 protection standards, but you also show a clearer
18 roadmap as to how you're going to move forward
19 with standards and enforcement with regard to any
20 potential new risks created by automated vehicles.

21 In terms of post-crash behavior, the sharing
22 of relevant data is critical and for a number of

1 stakeholders, certainly you, certainly the
2 researchers and certainly for insurers, so we can
3 do what we're supposed to do, which is identify
4 risk, finance risk and prevent risk.

5 And finally, data recording, uniform data for
6 crash reconstruction of the type that you've heard
7 about talked about today.

8 Finally, as our emergency medical technician,
9 I want to share one story with you. Several years
10 ago we were called out to a crash on the Beltway.
11 A lady's car stopped in the travel lane on the
12 Beltway and she was hit by three cars and killed.
13 That's the kind of scenario that we simply have to
14 prevent even as we bring about the promise of
15 automated vehicles. We have to make sure that
16 we're not creating new risks. We have to identify
17 them as risks, and we would urge you to act
18 effectively using all of your tools to mitigate
19 and prevent those risks going forward.

20 So thank you all very much. Pleased to take
21 any questions today. And we do look forward to
22 working with you and each and every one of the

1 stakeholders in this room as we move forward to
2 make this promise a safe reality.

3 Thank you.

4 MS. SWEET: Jonathan Weinberger, please.

5 MR. WEINBERGER: Thank you. I'm Jonathan
6 Weinberger, vice president of innovation and
7 technology at the Alliance for Automobile
8 Manufacturers.

9 So on behalf of the Alliance members, we thank
10 Secretary Chao and the staff of NHTSA for their
11 thoughtful leadership and the opportunity to
12 participate in this public meeting and to discuss
13 the automated driving systems people know. And
14 it's good to hear that the common goal of mobility
15 and enhanced safety, especially from a disability
16 community.

17 The action that DOT and NHTSA has taken with
18 the updated guidance will help to proactively
19 reduce the barriers for technology that can have
20 profound societal benefits that we've heard today.

21 HAVs and related safety technologies have the
22 potential to significantly improve overall safety

1 on our nation's roadways. The fatality numbers
2 for 2016, which we've heard, that NHTSA recently
3 released, underscored what's at stake as we
4 witnessed another year of increase in roadway
5 fatalities.

6 Given that over 90 percent of crashes are
7 related to human error, the crash avoidance
8 technologies of HAVs offer great promise to reduce
9 these crashes. The enhanced mobility aspects of
10 HAVs are also laudable from a societal, economic
11 environmental perspective. HAVs will offer more
12 personal freedom, as we've heard, and greater
13 self-sufficiency for the elderly and people with
14 disabilities as eloquently put before me, as well
15 as other segments of the population without access
16 today. They also allow reduced congestion getting
17 us from Point A to Point B faster with greater
18 efficiency.

19 So in order to make sure the industry
20 accomplishes its safety goals, we support DOT's
21 recognition that federal standardization of
22 vehicle safety is key to the deployment of HAVs

1 and the Department of Transportation's assertion
2 of its primacy in regulating motor vehicles and
3 motor vehicle equipment.

4 We appreciate the reiteration of federal and
5 state roles and we're thankful the guidance lays
6 the foundation for interstate and cross border
7 coordination that eliminates jurisdictional
8 differences that would impede deployment. To
9 cultivate further deployment, DOT should encourage
10 states to be proactive in removing barriers for
11 testing and deployment, not in creating them.

12 At the same time, DOT should assure states
13 that they can rely on NHTSA to regulate safety
14 performance on HAV technology, which should
15 obviate the need for state permitting regulations.
16 States have an opportunity to accelerate the
17 deployment of HAVs by enacting state legislation
18 that creates a clear path to driverless
19 deployment.

20 For example, the legislatures of Colorado,
21 Georgia, Michigan, Nevada, North Carolina,
22 Tennessee and Texas passed laws that allow for

1 non-testing deployment of HAVs on public roads
2 with and without human drivers. These bills rely
3 on the self-certification and do not require an
4 application or pre-approval permitting process
5 prior to deployment. Legislation of this kind
6 paves the way for driverless deployment while
7 allowing NHTSA to fulfill its role as regulator of
8 vehicle safety performance.

9 We agree the certification -- self-
10 certification regime combined with agency tools
11 such as NHTSA's broad investigative and recall
12 authority empowered adequately allowed NHTSA to
13 achieve its safety mission, vis-à-vis motor
14 vehicles and motor vehicle equipment. States
15 fulfill their role by addressing licensing
16 liability insurance issues like we just heard
17 before me and by promoting uniformity among such
18 state requirements.

19 Moreover, the department aims to achieve this
20 goal in part by adopting SAJ3016, automated
21 driving taxonomy and supporting definitions. Many
22 automakers are already using J3016 by adopting

1 these automated level categories in its guidance.
2 The department is eliminating a major source of
3 ambiguity that will help promote harmonization
4 among governments at all levels, both domestically
5 and abroad.

6 The future isn't something we should be afraid
7 of or try to slow down; rather it's something we
8 should embrace and smartly accelerate. This is
9 the path the administration has wisely chosen with
10 the update to the federal automated vehicle policy
11 guidance 2.0 and the revamped voluntary safety
12 self-assessment.

13 Alliance members appreciate the VSSA is a
14 voluntary publication process. This process
15 provides transparency to the public of critical
16 safety elements while affording flexibility for
17 each automaker or ADS supplier to customize their
18 assessment and publish it in the form that makes
19 the most sense for their product and safety
20 development process. This also facilitates
21 benchmarking, which ultimately leads to best
22 practices.

1 Additionally, the HAV guidance recognizes that
2 not all of the safety elements of the voluntary
3 safety self-assessment will be applicable to test
4 vehicles. We appreciate this recognition and
5 would like to reemphasize that providing VSSA for
6 each variant of an automated test vehicle will
7 quickly become unyielding. Not only do some of
8 the safety areas clearly not apply for automated
9 test vehicles, for instance, consumer education
10 and training, but providing an update for each
11 modification to rapidly developing HAV prototype
12 technology would needlessly encumber the delay in
13 the engineering process. We ask that NHSTA keep
14 this in mind going forward.

15 Additionally, with respect to crashworthiness
16 template, our understanding is that manufacturers
17 should provide information that demonstrates that
18 the HAV being deployed provide an equivalent level
19 of safety overall as compared to conventional
20 vehicles. This approach is consistent with the
21 expanded exemption process included in both the
22 House and the Senate bills, automated vehicle

1 bills that are moving through the legislative
2 process as we speak.

3 Related to this point, Alliance members
4 appreciate the point that Secretary Chao
5 emphasized in the HAV guidance regarding the
6 enforcement authority of NHTSA to identify defects
7 and issue recalls. This process is the same for
8 HAVs as it is for conventional vehicles. The
9 guidance also reiterates NHTSA's role in
10 establishing FMVSSs for enforcing compliance.

11 In closing, the Alliance is pleased to work
12 with NHTSA on updating many of the conventional
13 vehicle FMVSSs for HAVs. This is an important
14 step to reduce the barriers and we look forward to
15 providing input throughout the process and we'd
16 also like to take time -- take the opportunity to
17 thank the USDOT and NHTSA for their leadership on
18 this issue and the next generation of policies in
19 effect, and you had flexible, step forward in
20 providing safer, cleaner and more accessible
21 mobility for all Americans. The Alliance
22 certainly looks forward to submitting more

1 detailed comments as part of the -- as part of the
2 formal docket, but I appreciate the opportunity to
3 be part of the public session today. So thank
4 you.

5 MS. SWEET: Thank you. Paul Scullion.

6 MR. SCULLION: Hi there. Good morning. My
7 name is Paul Scullion, senior manager of safety
8 and connected automation, the Association of
9 Global Automakers, trade association representing
10 the operation of international auto manufacturers,
11 suppliers and technology providers.

12 I'd like to thank you again for the
13 opportunity to provide feedback on the automated
14 driving systems 2.0 vision for safety. We
15 appreciate NHTSA and DOT's continued leadership
16 and engagement on this important issue.

17 I'd like to highlight in our remarks at the
18 recent workshop on October 20th, we believe
19 connected automation will provide significant
20 opportunities for improving safety, efficiency and
21 accessibility and mobility. And with the recent
22 increase in highway fatalities, it's important

1 that the policy environment continue to support
2 safe testing and deployment of this innovative
3 technology.

4 In my brief remarks today, I plan to provide
5 some initial industry perspectives on the
6 voluntary guidance and will discuss the technical
7 assistance to states later in the agenda and our
8 written comments will go into more detail and will
9 fit these areas.

10 So in general, we believe that the federal
11 guidance supported by NHTSA's existing authority
12 strikes the right balance for promoting safety and
13 innovation and focuses more on those -- and
14 focuses more on those elements that are relevant
15 within the context of the safety self-assessment.
16 The approach to the voluntary safety self-
17 assessment process is an important step that will
18 support innovation and encourage open
19 communication with the public. Consumer trust and
20 confidence are critical to the adoption of new
21 technology and we are encouraged that the
22 administration has embraced a safety assurance

1 process that provides the necessary flexibility to
2 develop and test technologies, to increase public
3 trust and support the deployment of highly
4 automated vehicle systems.

5 While, again, in our written comments we're
6 going to do more detail, we believe that a number
7 of areas of the guidance improve upon the federal
8 automated vehicle policy 1.0 by providing
9 additional clarification with respect to how each
10 of the various elements should be considered.

11 We're also in the process of discussing the
12 details of the safety assessment template that was
13 recently issued and hope to provide additional
14 feedback in that area also.

15 We support that the guidance provides
16 flexibility for how information may be
17 communicated to the public and appreciate the
18 agency underscoring the importance of identifying
19 the appropriate level of detail and transparency
20 that can be provided without compromising
21 confidential business information. This is an
22 emerging area and how manufacturers or other

1 entities may communication relevant information to
2 the public is likely to evolve as we gather more
3 experience and greater understanding of consumer
4 expectations for how information may be structured
5 or presented.

6 Finally, we agree with the intent of the VSSA
7 in providing more open and transparent
8 communication; however, believe there would be
9 additional benefit in maintaining a website or
10 similar resource that provides the ability for
11 consumers and other stakeholders to link to safety
12 assessments being publicly disclosed by
13 manufacturers. There are, however, several ways
14 that such a resource could be implemented and
15 we're working closely with our members to identify
16 what key elements would need to be in place to
17 support such an effort. And we plan to include
18 recommendations for consideration as part of
19 comments in the docket on this issue.

20 In conclusion, to my first set of remarks, we
21 appreciate the opportunity to provide comments
22 here today and look forward to continued --

1 continued engagement both with the agency and
2 other stakeholders here today to support the
3 testing and deployment of this life-saving
4 technology. I'd be pleased to answer any
5 questions you might have.

6 MS. SWEET: Thanks, Paul. It's just about
7 10:30, so I'm going to give everybody about a 10-
8 minute, 15-minute break. Make sure you're back
9 here by 10:40 and we'll keep going. We have maybe
10 seven more folks, and then we'll open the floor
11 for anyone else who was not able to register.

12 [Off the record.]

13 MS. SWEET: All right. Welcome back. Thanks,
14 everyone, for coming back in so quickly. We'll
15 start back up with Andre Welch.

16 MR. WELCH: Good morning. Thank you for
17 holding this listening session and providing the
18 opportunity to hear Ford's views.

19 My name is Andre Welch. I'm the manager of
20 regulatory affairs in Ford's automotive safety
21 office, and I'm pleased to be here today.

22 Ford Motor Company was built on the belief

1 that freedom of movement drive human progress.
2 It's a belief that has always fueled our passion
3 to create great cars and trucks, and today it
4 drives our commitment to become the world's most
5 trusted mobility company, designing smart vehicles
6 for a smart world to help people move more safely,
7 confidently and freely.

8 Ford is investing in an autonomous future and
9 working to provide mobility solutions for
10 transportation challenges affecting communities
11 across the country and around the world. The
12 potential benefits of autonomous technology are
13 substantial, having the potential to save lives,
14 expand mobility and reduce congestion. We have
15 announced our intent to have an SAE Level 4
16 capable vehicle for commercial applications and
17 mobility services like ride hailing and ride
18 sharing early in the next decade. We are
19 progressing our plan through investments in
20 companies like Argoli I [phonetic], strategic
21 partnerships, like the one we've announced with
22 Lyft, by testing Level 4 autonomous vehicles on

1 public roads with safety drivers and various other
2 research efforts.

3 Ford appreciates NHTSA's leadership and
4 efforts to charter a policy pathway that will help
5 accelerate the safe development and deployment of
6 this technology and your willingness to
7 continually improve this guidance.

8 Concerning the 12 elements in the guidance,
9 I'd like to make the following points:

10 First, Ford appreciates NHTSA's clarification
11 that the safety assessment letter is a voluntary
12 safety self-assessment and applies to SAE Level 3
13 and above autonomous vehicles. We want to note
14 that the applicability of the VSSA to test
15 vehicles will likely be limited to a subset of 12
16 guide -- of the 12 guidance areas, especially in
17 the early stages, as trained test drivers will
18 likely supervise the systems, not unlike a Level 2
19 system, and will ultimately be responsible for
20 engaging AV molds within the ODD and for the OEERs
21 and/or the fallback.

22 We continue to encourage consistency with SAE

1 J3016 for terms like system safety, OEBR and
2 fallback, for example, as well as other industry
3 standards for AVs as they become mature.

4 Additionally, we share Acting Administrator
5 King's sentiments from the last workshop regarding
6 working in a transparent manner to develop trust.
7 We'll continue to educate and share information as
8 part of our self-driving development effort
9 through a variety of means, including the
10 voluntary safety self-assessment.

11 Concerning the state guidance section, I'd
12 like to emphasize the following points:

13 Ford shares NHTSA's views about the
14 delineation of federal and state roles and that
15 states should remove barriers to testing and
16 deployment. We also appreciate the clarification
17 that the VSSA should not be codified. We also
18 encourage NHTSA to continue dialogue with states
19 to insure that their legislative and regulatory
20 activity does not lead to a patchwork of
21 requirements and/or go beyond the issues addressed
22 in the VSSA.

1 In closing, we are encouraged that NHTSA
2 recognizes [inaudible] development in the AV space
3 and that the agency is already working on ADS
4 Version 3.0. We appreciate your efforts and want
5 to continue to be constructive partners in this
6 iterative process moving forward. We are living
7 in exciting times and Ford wants to be a valued
8 partner for delivering the potential of self-
9 driving vehicles.

10 Thank you, and I'd be happy to take any
11 questions you may have.

12 MS. SWEET: Thank you, Andre.

13 Amitai Bin-Nun, please.

14 MR. BIN-NUN: Good morning and thank you very
15 much, not just for hosting today's listening
16 session, but for all the sessions that you -- and
17 dialogues that you've been part of and hosted in
18 the last couple of years. I think that's really
19 indicative of the extent to which NHTSA has -- has
20 been open and receptive to industry and advocacy
21 input on this and I wanted to thank you, and we
22 look forward to continuing to work with you as

1 this policy is to be refined and we work together
2 [inaudible] technology on the road.

3 My name is Amitai Bin-Nun. I'm the vice
4 president of Autonomous Vehicles and Mobility
5 Innovation and Securing America's Future Energy.
6 For over a decade SAFE has worked to strengthen
7 America's national and economic security by
8 reducing our oil dependence in the transportation
9 sector and [inaudible] resulting in exposure to
10 the destructive impacts of all parts [inaudible].
11 SAFE is incredibly bullish about the potential for
12 autonomous transportation to remake our society
13 and make a tremendous difference by curbing the
14 more 37,000 fatalities that are happening annually
15 on U.S. roadways, addressing the dramatic
16 underutilization inherent in the current vehicle
17 ownership model, and as we heard so eloquently
18 today from so many advocates, the ability to
19 provide mobility and freedom to the disabled -- to
20 the disabilities community, to older Americans and
21 to those who are -- do not have full access to
22 vehicles for economic reasons. And mostly

1 importantly, to see autonomous vehicle technology
2 will likely secure dramatic reductions in oil
3 demand through driving efficiency and fuel
4 diversification, and that is why it is some
5 important to get public policy right and why
6 it's -- the [inaudible] of these are so important.

7 And that's why we're so appreciative of the
8 work that the -- that NHTSA has put into the
9 vision for safety policy document, which is a
10 positive step towards giving industry and the
11 public greater certainty and visibility into
12 federal policy and as well as serving as a balance
13 between the need for transparency on safety and
14 leaving space for private sector innovation.
15 We're looking forward to continuing to work with
16 you, the administration, as it continues to update
17 and expand your guidance on autonomous systems.

18 So specifically as to the vision for safety
19 document that was issued in September, we wanted
20 to offer two specific suggestions for refinement,
21 both in this version of the policy and other
22 policy guidance that may be coming down the road.

1 The first is around commercial vehicles and
2 trucking. Trucking is incredibly important as the
3 backbone of our economy. Trucks haul more than
4 \$700 billion worth of freight every year and we're
5 expected to see that grow by 40 percent in the
6 next two decades. At the same time, trucking uses
7 close to 3 billion barrels of oil per day so
8 innovation is not only essential for safety, but
9 it can help us improve our energy security.

10 Later this week SAFE is going to be releasing
11 a report in which we confirm that lower levels of
12 automation of vehicles to [inaudible] for trucks
13 already have demonstrated significant benefits for
14 safety and energy efficiency and are poised to
15 allow even greater benefits at higher levels of
16 automation. So in this context it's really
17 crucial to insure that policy does not get in the
18 way of innovation in the heavy duty sector.

19 So in terms of -- the vision for safety
20 guidance makes it clear that the Federal Order of
21 Carrier Safety regulations place restrictions on
22 the level of automation that's permitting in

1 trucking, and specifically around the need for a
2 driver that is always behind the wheel.

3 Our view is that placing a CLN innovation is
4 not in the national interest and we hope that
5 you'll work with the Federal Order of Carrier
6 Safety agency to send a message to the private
7 sector that policymakers will endeavor and will
8 collaborate across agency divides to create a
9 pathway of all levels of automation that are
10 safely achievable. And we believe that the
11 potential benefits of offering a pathway towards
12 higher levels of automation are too great to
13 ignore and so we -- we would request you work with
14 FMCSA to give clearer guidance to the private
15 sector and some -- many startups who are working
16 these area on this particular topic. And we would
17 certainly be happy to serve as a resource in that
18 regard.

19 Our second issue that we'd like -- the second
20 issue that we'd like to comment on is on the topic
21 of safety assurance. Earlier this year we had a
22 report from the state's commission on autonomous

1 vehicle testing and safety led by General Mark
2 Rosenkerr [phonetic], former chairman of the NDSB
3 and Admiral Dennis Blair suggested that we have a
4 national conversation about the acceptable level
5 of safety benchmark in an autonomous vehicle. The
6 commission suggested that autonomous vehicles be
7 deployed once demonstrated to be as safe or safer
8 than a human driver.

9 Creating such a benchmark would increase
10 public confidence and help create uniformity from
11 developers and create a standard for which they --
12 a standard for which policy could be anchored
13 around. Now, certainly creating a benchmark is
14 one thing and actually measuring levels of safety
15 is another. So the commission suggested that AV
16 developers work together to create an
17 understanding about how to uniformly measure and
18 create metrics around AV safety.

19 Recently we've seen some companies contribute
20 to this base by putting together, putting out in
21 the public in the public domain formal frameworks
22 for safety as well as prima facie rules for

1 understanding the role and responsibilities of
2 autonomous vehicles in an accident and determining
3 whether one's at fault or not. I mean, I know how
4 common they are, those specific -- without
5 commenting on those specific frameworks that have
6 been put forth, we see this positive that
7 companies have put forth these public discussion
8 and we'd love to see more of -- more of these
9 frameworks or ideas for safety assurance being put
10 forth. So we would suggest that NHTSA, within the
11 general framework of the voluntary self-
12 assessment, solicit industry thoughts on what
13 would be the acceptable levels of AV safety and
14 what's the pathway towards building metrics for
15 measuring AV safety, which may be done within the
16 context of the system safety element identified in
17 the vision for safety and voluntary self-
18 assessment.

19 So thank you again for giving us a chance to
20 comment and we're eager to work with you going
21 forward in an effort to make sure that the full
22 scope of the benefits on autonomous vehicles are

1 unlocked as soon as possible.

2 Thank you very much.

3 MS. SWEET: Thank you. And Timothy Blubaugh,
4 please come to the mic.

5 MR. BLUBAUGH: We moved so far back.

6 Thanks. My name is -- again, my name is Tim
7 Blubaugh. I am with the Truck and Engine
8 Manufacturers Association or EMA. EMA represents
9 the manufacturers of a wide variety -- a wide
10 variety of internal combustion engines and the
11 major manufacturers of medium and heavy duty
12 trucks, trucks with a gross vehicle weight rating
13 greater than 10,000 pounds.

14 EMA members design and manufacture highly
15 customized vehicles to perform a wide variety of
16 commercial functions, including interstate
17 trucking, regional freight shipping, local parcel
18 pickup and delivery, refuse hauling and
19 construction. We appreciate NHTSA's leadership in
20 developing the latest guidance that provides a
21 framework for development of the highly automated
22 systems and I am pleased to have the opportunity

1 to provide some brief remarks from the heavy duty
2 perspective.

3 We see the primary purpose of automated
4 driving systems as assisting the driver in
5 maintaining control of the vehicle and avoiding a
6 crash. Heavy duty automated driving systems build
7 off existing driver assistance systems on the road
8 today from anti-lock braking to electronic
9 stability control, to automatic emergency braking
10 and adaptive cruise control.

11 Like existing driver assistance technologies,
12 automated driving systems show great promise in
13 reducing the human error of the driver that is a
14 factor in most vehicle crashes.

15 We appreciate NHTSA's leadership in automated
16 vehicles because, like the passenger car -- like
17 passenger car manufacturers, heavy duty
18 manufacturers require a follow-up framework for
19 the deployment of technologies on new vehicles. A
20 patchwork of state requirements would
21 significantly harm our ability to efficiently
22 supply commercial vehicle customers across the

1 country, particularly since many of our customers
2 are in the interstate trucking business.

3 Unlike passenger car manufacturers, our
4 customers are often motor carriers that are
5 regulated by the Federal Motor Carrier Safety
6 Administration. In addition to NHTSA's
7 requirements that apply to newly manufactured
8 vehicles, the FMCSA requirements control the
9 drivers, equipment and operations of motor
10 carriers.

11 Of note, FMCSA regulations currently require
12 that a trained commercial driver must be behind
13 the wheel at all times.

14 For that reason, and because commercial
15 vehicle drivers do much more than drive the truck,
16 we do not currently envision automated driving
17 systems eliminating the need for the driver of a
18 heavy duty vehicle.

19 Commercial drivers are the fact of their
20 trucking business. They conduct critical pre-trip
21 vehicle inspections, they secure the load being
22 transported, they manage and report on the

1 logistics of delivering the load and they guard
2 against theft of the vehicle and freight.

3 Accordingly, we see automated driving systems
4 greatly reducing the human error involved in
5 driving by performing more and more of the driving
6 task, but not necessarily eliminating the role of
7 the commercial vehicle driver altogether.

8 Additionally, unlike passenger cars, medium
9 and heavy duty trucks are each highly customized
10 to suit a particular fleet's needs. And in the
11 aggregate, they are sold in relatively low
12 volumes, approximately one tenth the volume, the
13 annual volume of passenger cars. Based on the
14 high customization and the low sales volumes,
15 heavy duty vehicles have extended product
16 lifecycles, with some models in production 20 or
17 30 years. Considering those long product
18 lifecycles, we anticipate highly automated driving
19 systems being deployed on existing conventional
20 heavy duty vehicle platforms.

21 In conclusion, EMA members aim to improve the
22 safety of medium and heavy duty vehicles by

1 developing automated driving systems that build on
2 existing driver assistance technologies. As
3 higher models of automated driving systems are
4 developed, we do not foresee fundamental changes
5 to heavy duty vehicle designs and as more of the
6 driving task becomes automated, we still envision
7 a crucial role for the commercial vehicle driver.

8 Finally, we are developing heavy duty
9 automated driving systems to assist commercial
10 vehicle drivers with the goal of reducing human
11 error of the driver.

12 We appreciate NHTSA's latest guidance and its
13 leadership in automated vehicle technologies and
14 the opportunity to provide these comments.

15 Thank you.

16 MS. SWEET: Thank you, Tim. All right. Mike
17 Cammisa, please.

18 MR. CAMMISA: Thanks. I'm Mike Cammisa with
19 the American Trucking Associations. As a national
20 representative of the trucking industry, ATA has a
21 strong interest in highway safety for all
22 motorists. Highways are the motor carriers' and

1 drivers' workplace employing more than 7.3 million
2 people moving 10 and a half billion tons of
3 freight annually. Trucking is the industry most
4 responsible for moving America's economy.

5 The trucking industry moves 70.1 percent of
6 our nation's domestic surface freight and is a
7 critical player in the safety of our nation's
8 roadways spending \$9.5 billion per year on safety
9 training, technology, equipment and management.

10 From a trucking industry perspective, the role
11 of the federal government in leading the
12 deployment of autonomous vehicles is essential.
13 Our industry relies on an interstate highway
14 system that facilitates the free flow of goods
15 between the states. I'll have more to say on that
16 during the discussion period on technical
17 assistance to the states.

18 ATA is pleased that NHTSA expressly
19 underscores its jurisdiction over and a need to
20 consider the design aspects of all motor vehicles,
21 including commercial vehicles, and motor vehicle
22 equipment in developing these voluntary guidance

1 to insure that the policy framework is appropriate
2 for all road users and vehicle types.

3 Recognizing that there are some differences
4 between non-commercial vehicles and commercial
5 vehicles, the flexibility offered by the voluntary
6 guidance allows commercial vehicle manufacturers
7 and technology companies who are developing
8 automated driving systems for commercial vehicles
9 to apply the guidance in a manner that reflects
10 those differences while maintaining a consistent
11 approach overall for all motor vehicles.

12 ATA supports NHTSA's decision to focus the
13 voluntary guidance on SAE automation Levels 3
14 through 5 rather than 2 through 5 as in the
15 original FAVP. SAE Level 2 requires the driver to
16 remain engaged with the driving task and monitor
17 the environment at all times, in contrast to Level
18 3 through 5 in which the automated driving system
19 monitors the driving environment and performs the
20 driving task.

21 As you know, and is the guide in states, the
22 design aspects of all motor vehicles and motor

1 vehicle equipment come under NHTSA's jurisdiction
2 while the Federal Motor Carrier Safety
3 Administration regulates interstate motor carrier
4 operations and commercial motor vehicle drivers.
5 ATA encourages the two agencies to work in concert
6 to remove barriers to innovation in automated
7 technology through the review and modification
8 where necessary of any regulations or standards
9 that do not reflect the realities of automated
10 technology.

11 DOT should expeditiously disclose the results
12 of their reviews of the Federal Motor Carrier
13 Safety Regulations and Federal Motor Safety
14 Standards to allow for a productive period of
15 public engagement prior to the initiation of any
16 regulatory action. However, it is important that
17 the review and required regulatory process do not
18 hinder the development and deployment of automated
19 technology which can be facilitated by exemptions
20 and interpretations while the reviews and
21 regulatory revisions are underway.

22 ATA believes that the voluntary safety self-

1 assessment provides organizations testing or
2 deploying an automated driving system an
3 opportunity to share information with the public
4 that will provide assurance that the appropriate
5 safety elements identified in the guidance were
6 considered in the course of developing the
7 relevant technology.

8 This information will also help to educate the
9 public about the capabilities and limitations of
10 automated driving systems and how members of the
11 public should interact with automated driving --
12 automated vehicles.

13 ATA supports NHTSA's policy that the safety
14 self-assessments are not exhaustive accounts of
15 every action taken by an entity which could
16 involve a disclosure of confidential business
17 information and that NHTSA's approval of the
18 safety self-assessment is not required, which
19 would create a de facto premarket approval process
20 that could delay testing and deployment.

21 Due to the differences in design approach --
22 I'm sorry -- due to the differences in approach to

1 the design of automated driving systems in
2 general, as well as differences between commercial
3 and passenger vehicles, ATA does not believe that
4 there should be a standard format for the
5 voluntary safety self-assessment at this time.

6 As NHTSA recognizes, developers of automated
7 driving systems should retain the flexibility to
8 communicate the relevant information in a format
9 that reflects their approach, thus preserving
10 opportunities for innovation in this rapidly
11 developing area.

12 Finally, ATA would like to identify a contrast
13 between a response NHTSA provided to Google in
14 February 2016 regarding an automated driving
15 system as the driver of the vehicle and reference
16 in the voluntary guidance to current FMCSA
17 regulations requiring a trained driver behind the
18 wheel. The NHTSA response to Google stated that
19 if no human occupant of the vehicle can actually
20 drive the vehicle, it is more reasonable to
21 identify the driver as whatever as to whoever is
22 doing the driving. In this instance, an item of

1 motor vehicle equipment, the self-driving system,
2 is actually driving the vehicle.

3 Now, the new NHTSA guidance states in its
4 scope and purpose section currently per the
5 Federal Motor Carrier Safety Regulations, a
6 trained commercial driver must be behind the wheel
7 at all times regardless of any automated driving
8 technologies available on a commercial motor
9 vehicle unless a petition for a waiver or
10 exemption has been granted.

11 ATA would like to see FMCSA and NHTSA work
12 together to determine how FMCSA's position on
13 highly automated commercial vehicles without a
14 human operator can best align with NHTSA's prior
15 conclusion that a self-driving system may be a
16 driver. To insure consistency between agencies
17 within USDOT and avoid erecting any unnecessary
18 barriers to development and deployment of
19 automated vehicle technology for all types of
20 vehicles.

21 Thank you.

22 MS. SWEET: Thanks, Mike.

1 That was the last of our registered speakers
2 for those that wanted to provide oral -- verbal
3 remarks on the voluntary guidance.

4 So I'm going to open the floor. If anyone
5 else wants to make remarks specifically about the
6 voluntary guidance, please go ahead and do so now.
7 If not, we'll go ahead and we have a few folks
8 that registered to speak with respect to the
9 technical assistance to states.

10 So if anyone wants to say anything that did
11 not say anything about the voluntary guidance, go
12 ahead and stand up.

13 All right. So then we'll go ahead. So we
14 have a few more folks that wanted to say something
15 about technical assistance to states. So I'll
16 start with William Wallace. Please.

17 MR. WALLACE: Thanks once again for holding
18 this meeting. Consumers Union, once again we're
19 the policy division of the independent non-profit
20 Consumer Reports, thanks you for the opportunity
21 to share oral comments on the technical assistance
22 to states portion of the guidance document,

1 including best practices for state legislatures.

2 We appreciate the work done by NHTSA and other
3 stakeholders on this section of the document.

4 With technology rapidly advancing, it's
5 appropriate to clearly describe and delineate
6 federal and state rules in regulating automated
7 vehicles. As the agency undertakes this task, we
8 appreciate that NHTSA makes clear that the goal of
9 state policies in this realm may not be uniformity
10 or identical laws and regulations across all
11 states, but rather sufficient consistency of laws
12 and policies.

13 What this exercise really should be about is
14 making sure that a consumer can do as NHTSA has
15 previously suggested and drive across state lines
16 without a worry more complicated than did the
17 speed limit change. With that in mind, we caution
18 against going too far in the name of avoiding a
19 so-called patchwork. NHTSA and the states are
20 critical partners in insuring consumer safety on
21 our roads, and this partnership needs to continue
22 and get stronger as automated driving technologies

1 advance. NHTSA should oppose as detrimental to
2 safety policy proposals that would unduly restrict
3 the ability of states to protect safety on public
4 roads. This is especially true for measures that
5 would invalidate state and local highway safety
6 laws and undermine traditional state and local
7 roles where a strong federal safety standard is
8 not in place, leading to a vacuum that would put
9 the consumers at risk.

10 NHTSA's technical assistance to states include
11 several areas of useful guidance to the states,
12 and we particularly appreciate the inclusion of
13 best practices for states regarding the
14 applications entities would submit to states and
15 the permissions they would need to receive in
16 order to put vehicles with automated driving
17 systems on public roads. These kinds of sensible
18 state requirements would provide an important
19 layer of corporate accountability for consumers
20 and help assure state officials that testing and
21 deployment will be done responsibly.

22 At the same time, we are concerned that the

1 current guidance may understate the advisory role
2 NHTSA can and should play to insure safety. NHTSA
3 and states can and should work together. Their
4 knowledge and skills can complement each other's.
5 NHTSA can make up for areas in which states may
6 lack adequate expertise and vice versa. We also
7 are still concerned that state governors, motor
8 vehicle administrators or other executive branch
9 officials at the state level may grant permission
10 for an automated vehicle to be deployed on public
11 roads without its safety having been sufficiently
12 insured.

13 We urge NHTSA to discourage states from making
14 this mistake as it could profoundly jeopardize
15 consumer safety and confidence in the technology.
16 NHTSA should communicate clearly and forcibly with
17 the state governor if it believes safety has not
18 sufficiently been insured for a vehicle that the
19 state intends to permit on its own roads.

20 As discussed, the technical assistance to
21 states includes several areas in which it is
22 appropriate and beneficial to consumer safety for

1 states to regulate the testing, deployment and
2 operation of automated driving systems. This
3 includes issues related to requirements for
4 drivers of deployed vehicles, registration
5 entitling these vehicles, law enforcement
6 considerations, liability and insurance.

7 However, there are additional steps that NHTSA
8 should recommend the states take. NHTSA should
9 recommend that states requires dealers, rental
10 companies and other retailers to clearly
11 communicate the capabilities and limitations of
12 automated systems to consumers to help prevent
13 driver confusion over ADS capabilities which could
14 lead to crashes, particularly of cars with the
15 partially autonomous systems whose capabilities
16 can most readily be overstated or misunderstood.

17 In addition, NHTSA should recommend that
18 states prohibit the operation of vehicles'
19 automated driving systems if needed equipment has
20 been significantly damaged and not repaired.

21 Thank you for your work on ADS safety and for
22 your consideration of our comments. We look

1 forward to continuing to work with NHTSA as it
2 implements the ADS guidance and works with
3 stakeholders on more detailed information for
4 states to enhance their oversight of automated
5 driving systems.

6 MS. SHEET: Thank you. Paul Scullion is still
7 here?

8 MR. SCULLION: Good morning, again. As I
9 mentioned, my name is Paul Scullion, senior
10 manager of safety and connected automation at the
11 Association of Global Automakers.

12 In the last few years states have become
13 increasingly active in considering laws and
14 regulations concerning the testing and deployment
15 of automated vehicles. However, the way in which
16 these policies are developed and implemented will
17 likely impact the extent to which the benefits of
18 automated vehicles can be realized.

19 One issue on which there is broad agreement,
20 though, is policymakers -- among policymakers is
21 that automated vehicles should be governed by
22 consistent and national framework rather than the

1 patchwork of inconsistent state regulations.

2 We appreciate the agency providing additional
3 clarification on the respective local, state and
4 federal government in addressing AVs. States
5 continue to play an important role in issues
6 related to licensing, registration, insurance,
7 liability and law enforcement as highly automated
8 vehicles are integrated as part of the existing
9 fleet.

10 Indeed, similar to the importance of NHTSA
11 researching how best to modernize existing federal
12 motor vehicle safety standards to enable HAVs. We
13 must also seek to understand how the current state
14 rules of the road may need to adapt to support or
15 enable deployment or operation of automated
16 vehicles both in the short term as well as the
17 long term.

18 The technical assistance to states provides
19 helpful guidance and we welcome the additional
20 background that the agency has sought to provide
21 all [inaudible] through revisions to the normal
22 state policy as well as the frequently asked

1 questions section of the NHTSA AV website.

2 However, with continued efforts to develop new
3 laws and regulations there remains concerns that
4 certain policy actions could significantly impact
5 the development and ability of an automated
6 vehicle to travel between states, particularly
7 when a law or regulation impacts the performance
8 or design of an AV or seeks to extend beyond areas
9 already addressed by NHTSA.

10 As the technology continues to evolve, it is
11 important to both understand the effectiveness and
12 limitations of the policies already in place and
13 to insure there's informed debates surrounding new
14 laws and regulations being considered for the
15 future.

16 The transition to a more automated fleet will
17 not happen overnight. I believe NHTSA can play an
18 important role in helping to bring together
19 stakeholders from both the public and private
20 sector and across all levels of government and
21 through collaborative engagement, the stakeholders
22 can better understand different perspectives on

1 the key questions and policy issues that need to
2 be addressed and collectively work to address
3 these in the short term and long term as the
4 technology continues to evolve over time.

5 We, therefore, recommend that NHTSA consider
6 organizing as part of its technical assistance to
7 the states a public workshop or series of broad
8 stakeholder engagement sessions to help convene a
9 national discussion on the key policy issues
10 affecting the states. This would not only help
11 better align the respective roles of state and
12 federal government, but also provide a forum for
13 insuring a more uniformed approach to AV policy.

14 It's important that we get this right. And as
15 I mentioned earlier, with increasing fatalities
16 and the need to identify new opportunities for
17 improving mobility and efficiency, we must
18 collectively insure the right frameworks are in
19 place both at the state and federal level to
20 support safe testing and deployment.

21 I thank you again for the opportunity to
22 provide comment here today and I'd be happy to

1 answer any questions you might have.

2 MS. SWEET: Thanks, Paul. Mike Cammisa.

3 MR. CAMMISA: Again, Mike Cammisa, American
4 Trucking Associations. And thank you for this
5 opportunity to speak.

6 Again, as the national representative of the
7 trucking industry, ATA has a strong interest in
8 highway safety for all motorists and we are -- the
9 trucking industry is a critical player in the
10 safety of our nation's roadways.

11 Automated and connected vehicle technologies
12 have the potential to dramatically impact nearly
13 all aspects of the trucking industry. These
14 technologies can bring benefit to the areas of
15 safety, environment, productivity, efficiency and
16 driver health and wellness. Automated driving
17 technologies is the next step in the evolution of
18 the safety technology currently available and will
19 help to further improve driver safety and
20 productivity as well as the safety of other
21 motorists and road users.

22 From a trucking industry perspective, the role

1 of the federal government in leading the
2 deployment of autonomous technologies is
3 essential. Our industry relies on an interstate
4 highway system that facilitates the free flow of
5 goods between states. As automated truck
6 technology is commercialized, it is critical that
7 state and local laws do not create disparities
8 that limit commerce and obstruct the successful
9 adoption of these potentially safety and
10 productivity boosting technologies.

11 The federal government's clear leadership role
12 in this area precludes any state efforts to
13 regulate vehicle design as such state efforts
14 would inherently give rise to conflict of the
15 federal scheme.

16 ATA concurs with NHTSA's statement on page 18
17 of the guidance that states not codify the
18 voluntary guidance as a legal requirement and that
19 NHTSA should be the sole regulator of the safety
20 design and performance aspects of automated system
21 technology.

22 States should maintain their existing

1 responsibilities that do not interfere with the
2 flow of interstate commerce. States should
3 support operations of commercial motor vehicle
4 automated and connected technologies within their
5 rights of intrastate jurisdiction. Conflicting or
6 duplicative requirements among federal and state
7 agencies would create roadblocks to the deployment
8 of automated technology, delaying the safety
9 benefits, fuel savings, emission reductions and
10 potential efficiency improvements to our nation's
11 transportation system.

12 When conflicts arise between federal and state
13 regulations, the federal government must take a
14 clear leadership role and, if necessary, exercise
15 federal preemption.

16 ATA also concurs with NHTSA's recommendation
17 that that states should identify and change
18 traffic laws and regulations that may serve as
19 barriers to operation of automated driving
20 systems.

21 Furthermore, ATA believes that states should
22 commit to insuring a unified national framework to

1 facilitate the development, testing and deployment
2 of commercialized automated and connected truck
3 technology, including further harmonization of
4 state level traffic and vehicle rules affecting
5 the operation of such technology. States should
6 take into consideration federal guidance and
7 regulations and avoid placing any performance
8 requirements on automated and connected trucks.

9 ATA supports the development of automated
10 vehicle technology for all vehicle types. We
11 commend DOT for recognizing the need to create a
12 flexible framework for all vehicles on the roads
13 and working with both passenger and commercial
14 vehicle sectors in preparing this updated policy.
15 NHTSA's voluntary guidance to developers of
16 automated driving systems and the technical
17 assistance to states provides a pathway for
18 testing and deployment of automated technologies
19 that sets clear roles and expectations for all
20 stakeholders. This clarity will support the
21 collection of more on-road data which will lead to
22 a better understanding of how these technologies

1 may benefit the public along with considerations
2 of how regulations may need to change to take
3 advantage of the capabilities that this new
4 technology provides.

5 Although not within NHTSA's authority to
6 change, ATA supports expansion of the number and
7 duration of exemptions that NHTSA is authorized to
8 allow from current standards that prevent new
9 safety technologies from being put on the road.

10 Expanded exemptions, along with clear federal
11 preemption to insure that there will not be a
12 disparate state -- set of state laws that
13 unnecessarily impedes the testing and operation of
14 vehicles with automated driving systems across
15 state lines and in interstate commerce. These
16 together would help collect real world data more
17 quickly to assist in policy decisions and
18 standards development.

19 Thanks.

20 MS. SWEET: Thank you, Mike.

21 All right. Again, I will open the floor if
22 anyone has comments that they would like to make

1 regarding the technical assistance to states.

2 MR. SNYDER: Thank you very much. Dave
3 Snyder, Property, Casualty Insurance Association
4 of America.

5 I did address a couple of these points earlier
6 on, but I wanted to make three points,
7 particularly in connection with this part of the
8 agenda.

9 The first is if the objective is to ward off
10 state barriers to the appropriate implementation
11 of the technology, it's critical that NHTSA not
12 only talk about its role, but actually exercise
13 its full regulatory authority. And in that way,
14 that will become the best argument we think for
15 why the states should not take or maintain various
16 actions that would interfere with the safe
17 introduction of this technology.

18 The second point is one that I made earlier,
19 that state-regulated entities, our solvency is
20 regulated at the state level, so it's very
21 critical that the liability rules which are so
22 interrelated with our solvency remain at the state

1 level and thoroughly regulated by the state
2 commissioners.

3 The third point I want to make is don't leave
4 out the localities in the -- in the work here. I
5 know at the federal level you tend to look at the
6 next level of the states, though the states do it
7 all and the states determine all the rules. The
8 fact of the matter is that first responders are
9 largely locality, volunteers or career folks.
10 Localities have a lot to do with the safety laws
11 that are enacted and how they're enforced and
12 applied. Even though it may seem at one level to
13 be purely a state responsibility, the fact of the
14 matter is that localities will become critical
15 players in this effort. So we would urge that you
16 move forward, not only involve the states in an
17 appropriate way to assist in the safe innovation,
18 but don't lose sight of the fact that localities
19 need their own voice in this process because
20 depending on the way the state laws are
21 structured, localities may have a very, very
22 significant role to play in all of this in

1 assuring that your objectives are met.

2 So thanks very much for the opportunity to
3 make these additional comments.

4 Yes, sir.

5 MR. BEUSE: Yes, Mr. Snyder, I have one
6 question about your first point, about NHTSA's
7 exercising its full authority. [Inaudible] that's
8 what he said. What exactly did you mean by that;
9 the issuance of federal motor vehicle safety
10 standards or is it something broader than that?

11 MR. SNYDER: Well, I think what I mean is
12 giving the states and the public the assurance
13 that, in fact, the standards are there, as soon as
14 they can be appropriately created and if the full
15 enforcement authority of NHTSA is there. I
16 realize that in the early days reliance on some
17 degree of voluntariness is absolutely necessary,
18 but the question is going to recur, when are you
19 going to establish standards and when are they
20 going to be enforceable. And how are we going to
21 deal with the potential new risk created by the
22 technology? The technology, it's true, hopefully,

1 will reduce the risks that we see out there on the
2 highway today with individual drivers making
3 errors. However, if we inadvertently introduce
4 even wider and systemic issues such as all cars
5 stopping at the same time, all cars accelerating
6 at the same time, are large numbers. You've
7 actually undermined the very safety benefits that
8 we all want from the technology.

9 So I think people are going to ask you, are
10 you addressing the existing risks and continuing
11 to address those, and what are you doing with
12 regard to any new risk that will be introduced as
13 a result of this technology. And I think if have
14 a good answer to that, that then that is the most
15 effective way to ward off the barriers that no one
16 wants to see to the introduction of what could be
17 really very positive from every standpoint.

18 So that's the fundamental point I made. The
19 role is not just voluntary compliance that will
20 ultimately, in our view, have to be a level below
21 which you can't all go. But, again, it's much
22 easier to say that don't do that and we recognize

1 that and we -- we are very anxious to work with
2 all the stakeholders and you.

3 Thank you.

4 MR. BEUSE: Thank you.

5 MS. WILLIAMS: So is there anyone else --
6 anyone else who would like to make some oral
7 remarks before we close out? So I think I'm going
8 to have Debbie go ahead and cue up our slide that
9 we have that just shows the formal public docket.

10 We want to thank everyone for their
11 participation today. It was great to see so many
12 familiar faces, but also so many new faces joining
13 in on the discussions.

14 So beyond today's comments, we do have the
15 formal dockets, one specific to the guidance, 2.0
16 guidance, and you can place those comments in that
17 docket number, which is NHTSA-2017-0082. So the
18 closing date for that docket is November 14th. So
19 you have about a week.

20 And then if you have comments specifically to
21 the workshop we held about two Fridays ago on the
22 voluntary safety self-assessment, that docket

1 number is NHTSA-2017-0086.

2 We also have listed up on the slide the docket
3 associated with the Paperwork Reduction Act
4 associated with the guidance; so that's listed
5 there as well, and that's NHTSA-2017-0083.
6 Hopefully I got them all right off the top of my
7 head. So -- but they are back here.

8 And, again, we just appreciate everyone for
9 your candid remarks and we look forward to your
10 comments to the docket. With that, we'll close
11 out today's session. Thank you, everyone.

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November 17, 2017

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PAMELA J. ALEXANDER