

Updated August 4, 2023

Status Conference/All Party Meeting on Autonomous Vehicle Interactions with First Responders and Law Enforcement

Proceeding R.12-12-011

California Public Utilities Commission Auditorium

505 Van Ness Avenue
San Francisco, CA

Web Ex Information

Join link:

<https://cpuc.webex.com/j.php?MTID=me2a39da6aed8cafbab44fed9bbbd1161>

Webinar password:

1765767#

Webinar number:

2482 847 4041

Conference Call-in Information:

1-800-857-1917, passcode 1765767#

Due to limited time, public comment will be limited to in-person participants. Party representatives were required to RSVP with the CPUC by July 31, 2023, to be included by name in this agenda. Parties not on the agenda and groups or organizations attending in person wishing to comment are encouraged to designate one representative to comment on behalf of the group.

Agenda – Monday, August 7, 2023

1:00 pm – 1:15 pm

Call to Order, Safety Message, Agenda Overview, and Participation Decorum

Administrative Law Judge Robert Mason

Opening Remarks

Commissioner Genevieve Shiroma

Commissioner John Reynolds

President Alice Reynolds

Commissioner Darcie Houck

1:15 pm – 2:55 pm

All-Party Responses to Questions from July 26, 2023, Assigned Commissioner Ruling

4.1 - Driverless AVs Stopping Unexpectedly and First Responder Training - Numbering from ACO Ruling (50 minutes total: 10 minutes per party followed by 10 minutes of Commissioner/ALJ Q&A)

Part 1: Data, Remote Operators, Testing

Questions for Parties:

1. How many times has a Cruise or Waymo driverless AV come to an unexpected stop in San Francisco?
2. What were the reasons for a Cruise or Waymo driverless AV to come to an unexpected stop in San Francisco?
3. Describe how remote operators interact with AVs in emergency situations, including actions remote operators are able to use to provide navigation aid to vehicles to move vehicles to locations that do not block traffic. If remote operators do not take control of the vehicle and perform the dynamic driving task in these situations, please describe why not, including technical and liability issues associated with remote control of AVs.
4. How many of the Cruise or Waymo driverless AV unexpected stops have impeded a San Francisco first responder from executing their duties, if any?
5. How were these unexpected stopped driverless AV situations resolved and how long did they take to be resolved?
6. Describe the testing protocol used by Cruise or Waymo to test that its AVs recognize an emergency situation.

Order of Party Responses to Questions:

- A. Prashanthi Rao Raman, Vice President of Global Government Affairs, Cruise LLC
Matthew Wood, Director of Software Engineering, Cruise LLC
Greg Dieterich, General Manager of San Francisco Market, Cruise LLC (1:15-1:25 pm)
- B. Mari Davidson, Managing Counsel, Waymo LLC
David Margines, Product Management, Waymo LLC
Shweta Shrivastava, Senior Director of Product Management, Waymo LLC
Lety Cavalcante, Head of Operations Center, Waymo LLC
Rob Patrick, Manager, Emergency Response & Outreach, Waymo LLC (1:25-1:35 pm)
- C. Jeanine Nicholson, Chief, San Francisco Fire Department
Darius Luttrupp, Deputy Chief for Operations, San Francisco Fire Department
Julia Friedlander, Senior Manager, Automated Driving Policy, San Francisco Municipal Transportation Agency (1:35-1:45 pm)
- D. Jarvis Murray, For-Hire Transportation Administrator, Los Angeles Department of Transportation (1:45-1:55 pm)

Commissioner/ALJ Questions (1:55-2:05 pm)

Part 2: Training

(50 minutes total: 10 minutes per party followed by 10 minutes of Commissioner/ALJ Q&A)

Questions for Parties:

7. How many times, if any, has Cruise or Waymo conducted training sessions for San Francisco first responders in dealing with unexpected stopped driverless AVs?
8. How many San Francisco first responders, if any, has Cruise or Waymo trained in dealing with unexpected stopped driverless AVs?
9. How long does each training last?
10. Does Cruise or Waymo update its training materials for first responders, and if so, how often?
11. How many training sessions, if any, does Cruise or Waymo have planned in the future?
12. How do first responders learn about the Cruise or Waymo training regarding dealing with unexpected stopped driverless AVs?

Order of Party Responses to Questions:

- A. Prashanthi Rao Raman, Vice President of Global Government Affairs, Cruise LLC

- Matthew Wood, Director of Software Engineering, Cruise LLC
Greg Dieterich, General Manager of San Francisco Market, Cruise LLC (2:05-2:15 pm)
- B. Rob Patrick, Manager, Emergency Response & Outreach, Waymo LLC (2:15-2:25 pm)
- C. Darius Luttrupp, Deputy Chief for Operations, San Francisco Fire Department
Nicole Jones, Commander, San Francisco Police Department
Julia Friedlander, Senior Manager, Automated Driving Policy, San Francisco Municipal Transportation Agency (2:25-2:35 pm)
- D. Jarvis Murray, For-Hire Transportation Administrator, Los Angeles Department of Transportation (2:35-2:45 pm)
- Commissioner/ALJ Questions (2:45-2:55 pm)

2:55 pm – 3:05 pm

Break

3:05 pm – 4:27 pm

All-Party Responses to Questions from July 26, 2023, Assigned Commissioner Ruling

4.2 - Improving Manner and Speed in Resolving Unexpected Stopped Driverless AVs

(30 minutes total: 3 minutes per party)

Question for Parties:

1. In a circumstance where a first responder is responding to an emergency (police, fire, medical) and an AV is blocking the way, how should this situation be resolved and how quickly?

Order of Party Responses to Questions:

- A. Darius Luttrupp, Deputy Chief for Operations, San Francisco Fire Department
Nicole Jones, Commander, San Francisco Police Department
Julia Friedlander, Senior Manager, Automated Driving Policy, San Francisco Municipal Transportation Agency (3:05-3:08 pm)
- B. Jarvis Murray, For-Hire Transportation Administrator, Los Angeles Department of Transportation (3:08-3:11 pm)
- C. Kristofer Kusano, Staff Safety Research Engineer, Waymo LLC (3:11-3:14 pm)
- D. Prashanthi Rao Raman, Vice President of Global Government Affairs, Cruise LLC
Matthew Wood, Director of Software Engineering, Cruise LLC
Greg Dieterich, General Manager of San Francisco Market, Cruise LLC (3:14-3:17 pm)
- E. Mark Gruberg, Board Member, San Francisco Taxi Workers Alliance (3:17-3:20 pm)
- F. Peter Leroe-Muñoz, General Counsel, Silicon Valley Leadership Group (3:20-3:23 pm)
- G. Sharon Giovinazzo, CEO, Lighthouse for the Blind and Visually Impaired (3:23-3:26 pm)
- H. Ariel Wolf, Counsel, Autonomous Vehicle Industry Association (3:26-3:29 pm)
- I. Cory Hohs, CEO, HAAS Alert (3:29-3:32 pm)*
- J. Dylan Hoffman, Executive Director of California and the Southwest, Technet (3:32-3:35 pm)

4.3 - Updating Passenger Safety Plans

(6 minutes total: 3 minutes per party)

Questions for Parties:

1. The Commission has heard from first responders that from their perspective the Passenger Safety Plans (PSPs) filed by the AV companies have gaps when dealing with emergency and catastrophic

situations. For first responders, please describe gaps in AV companies' Passenger Safety Plans with regard to protecting passengers and the public during emergency situations.

2. How quickly do first responders need to be able to communicate with AVs in such emergency and catastrophic situations?

Order of Party Responses to Questions:

- A. Darius Luttrupp, Deputy Chief for Operations, San Francisco Fire Department
Nicole Jones, Commander, San Francisco Police Department
Julia Friedlander, Senior Manager, Automated Driving Policy, San Francisco Municipal Transportation Agency (3:35-3:38 pm)
- B. Jarvis Murray, For-Hire Transportation Administrator, Los Angeles Department of Transportation (3:38-3:41 pm)

(6 minutes total: 3 minutes per party)

Question for Parties:

3. For Cruise and Waymo, please respond to the comments that we've received from first responders on this issue.

Order of Party Responses to Questions:

- A. Prashanthi Rao Raman, Vice President of Global Government Affairs, Cruise LLC
Matthew Wood, Director of Software Engineering, Cruise LLC
Greg Dieterich, General Manager of San Francisco Market, Cruise LLC (3:41-3:44 pm)
- B. Rob Patrick, Manager, Emergency Response & Outreach, Waymo LLC
Mari Davidson, Managing Counsel, Waymo LLC (3:44-3:47 pm)

(40 minutes total: 3 minutes per party followed by 10 minutes of Commissioner/ALJ Q&A)

Questions for Parties:

4. To the parties, please suggest solutions that can be implemented to address identified gaps in the PSPs. How quickly do first responders need to be able to communicate with AVs in such emergency and catastrophic situations?
5. The Los Angeles Department of Transportation has recommended in comments that AV companies in the city of Los Angeles use the Mobility Data Specification system now required for scooters and soon to be required for taxi cabs to immediately communicate to AV companies real-time and fluid traffic data such as special events and road closures. Are tools like this an option for enhancing safety and improving the ability of AV passenger services to identify safety hazards to protect passengers?

Order of Party Responses to Questions:

- A. Mari Davidson, Managing Counsel, Waymo LLC (3:47-3:50 pm)
- B. Prashanthi Rao Raman, Vice President of Global Government Affairs, Cruise LLC
Matthew Wood, Director of Software Engineering, Cruise LLC
Greg Dieterich, General Manager of San Francisco Market, Cruise LLC (3:50-3:53 pm)
- C. Darius Luttrupp, Deputy Chief for Operations, San Francisco Fire Department
Nicole Jones, Commander, San Francisco Police Department
Julia Friedlander, Senior Manager, Automated Driving Policy, San Francisco Municipal Transportation Agency (3:53-3:56 pm)
- D. Jarvis Murray, For-Hire Transportation Administrator, Los Angeles Department of Transportation (3:56-3:59 pm)
- E. Dylan Hoffman, Executive Director of California and the Southwest, Technet (3:59-4:02 pm)
- F. Ariel Wolf, Counsel, Autonomous Vehicle Industry Association (4:02-4:05 pm)
- G. Mark Gruberg, Board Member, San Francisco Taxi Workers Alliance (4:05-4:08 pm)

- H. Peter Leroe-Muñoz, General Counsel, Silicon Valley Leadership Group (4:08-4:11 pm)
- I. Sharon Giovinazzo, CEO, Lighthouse for the Blind and Visually Impaired (4:11-4:14 pm)
- J. Cory Hohs, CEO, HAAS Alert (4:14-4:17 pm)*

Commissioner/ALJ Questions (4:17-4:27 pm)

4:27 pm – 4:57 pm

Public Comment

4:57 pm – 5:00 pm

Closing Remarks and Meeting Adjournment

*HAAS Alert is a party to R.12-12-011 and RSVP'd by the July 31, 2023 deadline but was inadvertently left off the agenda distributed to the service list on August 1, 2023.