

**FILED****CPED Staff Proposal: New Autonomous Vehicle Program Data Reporting**

5/25/23

09:11 AM

R1212011

1. AV Pilot Program Quarterly Reporting

Going forward, participants in the AV Pilot programs will be required to submit quarterly data reports using the same templates as AV Deployment program participants. AV Deployment quarterly reporting requirements are described in D.20-11-046 (as modified by D.21-05-017); see Appendix A. The AV Deployment quarterly reporting templates are available on the [Commission's website](#). This requirement will go into effect immediately upon publishing of the updated data reporting requirements.

2. Collision Reporting

Collision reporting in AV Deployment shall be modeled on DMV form OL-316.¹

Reporting is required for any autonomous vehicle operating under a CPUC Deployment authorization. If such a vehicle is involved in a collision resulting in damage of property, bodily injury, or death, the AV carrier will report the following within 10 days after the collision:

- Carrier information: Name, address, telephone number
- Collision information: Date, time, location (address or intersection)
- Vehicle information (AV): Vehicle year, make, model, license plate number including state of registration, number of vehicle occupants (including both public and carrier employees)
- Other party information:
 - For other vehicles: Vehicle year, make, model, license plate number including state of registration
 - Pedestrians, bicyclists, or property involved, and information on property damage, injuries, fatalities
 - Injuries or fatalities of occupant(s) of involved vehicle(s)
- Collision conditions and circumstances, select one or more as applicable for each party involved:
 - Weather conditions (clear, cloudy, raining, snowing, fog/visibility, wind, other)

¹ See 13 CCR § 227.48.

CONFIDENTIAL / DELIBERATIVE PROCESS PRIVILEGE

- Lighting conditions (daylight, dusk/dawn, dark – street lights, dark – no street lights, dark – street lights non-functioning)
- Roadway surface (dry, wet, snowy/icy, slippery)
- Roadway conditions (holes/deep rut, loose material on roadway, obstruction on roadway, construction/repair zone, reduced roadway width, flooded, other, no unusual conditions)
- Movement preceding collision (stopped, proceeding straight, ran off road, making right turn, making left turn, making u turn, backing, slowing/stopping, passing other vehicle, changing lanes, parking maneuver, entering traffic, other unsafe turning, crossings into opposing lane, parked, merging, traveling wrong way, other)
- Type of collision (head-on, side swipe, rear end, broadside, hit object, overturned, vehicle/pedestrian, other)
- Other associated factors (CVC sections violated/cited, vision obscurement, inattention, stop and go traffic, entering/leaving ramp, previous collision, unfamiliar road, defective equipment, uninvolved vehicle, other, none apparent, runaway vehicle)
- Narrative description of collision, explaining the factors noted above as necessary

The Consumer Protection and Enforcement Division will provide a fillable form or spreadsheet for submission of this information.

Collision reports will be posted publicly on the Commission's website, with any personally identifying information (such as names, addresses, driver's license numbers, license plates) redacted.

3. Monthly Reporting

Participants in the AV program shall report the information below to CPED monthly. Reports will be due on the 10th of each month for the preceding month.

- Operations summary
 - Number of trips
 - By zip code (origin and destination)
 - Number of passengers carried
 - Number of vehicles operating
 - Number of unique vehicles that operated that month

CONFIDENTIAL / DELIBERATIVE PROCESS PRIVILEGE

- Maximum vehicles operating daily within the month
 - Median vehicles operating daily within the month
- Vehicle miles traveled²
 - Period 1
 - Period 2
 - Period 3
 - Total
- For every instance where an AV achieved a minimal risk condition (MRC)³, list:
 - License plate, VIN, or other unique identifier for AV involved
 - Date and time AV achieved minimal risk condition
 - Location of MRC
 - Latitude and longitude
 - More than 18 inches from curb?
 - Blocking or partially blocking a travel lane?
 - Blocking or partially blocking a bike lane?
 - Blocking or partially blocking a transit-only lane?
 - Within 200 feet of the nearest rail of any rail grade crossing?
 - Involvement of law enforcement or other first responders
 - Law enforcement/first responders involved?
 - Citation issued?
 - Resolution of MRC: returned to automated operation remotely (by remote operator), returned to automated operation manually (in-person), returned to automated operation without manual or remote operator intervention, manually driven away, towed, other (describe)
 - Response time
 - For incidents requiring manual removal of vehicle or other in-person manual intervention: time of dispatch, arrival at vehicle, vehicle removed or returned to automated operation
 - For incidents resolved remotely: time remote operator connected to vehicle, time vehicle returned to automated

² See Decision 20-11-046, Ordering Paragraph 7(m)(i) for definitions of Periods 1, 2, and 3.

³ 13 CCR § 227.02(i)

- operation (or situation otherwise resolved; describe in narrative)
- For incidents resolved without in-person or remote operator engagement: time vehicle returned to automated operation and moved from location of stop
- Number of passengers in vehicle, if applicable
 - If passengers were present in the vehicle, how ride was resolved – e.g., completed in same AV (autonomous mode), completed in same AV (manual mode), completed in a different vehicle, passenger ended ride early, etc.
- Narrative description of event, including:
 - Factors that led to or caused fallback to MRC
 - Impacts or risk to safety of passengers and other road users
 - Remediation; steps taken to prevent future occurrences
- Count of passenger pickup and drop-off occurring more than 18 inches from the curb and fraction of all pickups and drop-offs occurring more than 18 inches from the curb
 - By zip code
 - By census tract
 - By time of day (hour)

4. Data Sharing from Local Jurisdictions

Municipalities have unique access to data on what is occurring on the streets within their jurisdictions. CPED invites parties to comment on 1) their interest in voluntary reporting of relevant municipal data to CPED and 2) what data are available, regularly reportable, and relevant to the monitoring and evaluation of AV operations.

Examples might include 911 reports, citations by local police or parking officials, and other data. Reports should be anonymized or otherwise redacted to prevent disclosure of personally identifiable information.

(End of Attachment 1)