Investigation: PE23018
Prompted By: SGO and social media reports
Date Opened: 10/16/2023
Investigator: Thomas Haugh
Reviewer: Sharon Yukevich
Approver: Tanya Topka
Subject: Autonomous Driving System

MANUFACTURER & PRODUCT INFORMATION

Manufacturer: Cruise LLC
Products: ADS Software
Population: 990 (Estimated)

Problem Description: Cruise Automated Driving System (ADS) equipped vehicles may not be exercising appropriate caution around pedestrians in the roadway.

FAILURE REPORT SUMMARY

<table>
<thead>
<tr>
<th></th>
<th>ODI</th>
<th>Manufacturer</th>
<th>EWR D&amp;I</th>
<th>Other</th>
<th>Total</th>
<th>EWR Field Reports</th>
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<tr>
<td>All Incidents:</td>
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<td>Crashes/Fires:</td>
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<tr>
<td>Injury Incidents:</td>
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<tr>
<td>Number of Injuries:</td>
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<tr>
<td>Fatality Incidents:</td>
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</table>

Description of Other: Reports of crashes involving pedestrians submitted under SGO 2021-01 and social media reports of pedestrian encroachment.

ACTION/SUMMARY INFORMATION

Action: A Preliminary Evaluation (PE) has been opened.

Summary:
The Office of Defects Investigation (ODI) has received reports of incidents in which Automated Driving System (ADS) equipped vehicles operated by Cruise LLC (Cruise) may not have exercised appropriate caution around pedestrians in the roadway. These reports involve ADS equipped vehicles encroaching on pedestrians present in or entering roadways, including pedestrian crosswalks, in the proximity of the intended travel path of the vehicles. This could increase the risk of a collision with a pedestrian, which may result in severe injury or death.

Currently, the total number of relevant pedestrian incidents is unknown. ODI has received two (2) relevant reports involving pedestrian injuries from Cruise under Standing General Order 2021-01 (SGO). ODI has identified two (2) additional relevant incidents with videos posted to public websites.
ODI is opening this Preliminary Evaluation (PE) to determine the scope and severity of the potential problem, including causal factors that may relate to ADS driving policies and performance around pedestrians, and to fully assess the potential safety risks. The SGO reports cited in the Opening Resume, can be found in the investigation file at NHTSA.gov. under the following titles:

SGO 2021-01 report ID: 30412-6175
SGO 2021-01 report ID: 30412-6395