8468

IN SENATE

March 4, 2022

Introduced by Sen. COONEY -- read twice and ordered printed, and when printed to be committed to the Committee on Transportation

AN ACT to amend the vehicle and traffic law, in relation to autonomous vehicle driving

The People of the State of New York, represented in Senate and Assembly, do enact as follows:

1	Section 1. The vehicle and traffic law is amended by adding a new
2	article 34-E to read as follows:
3	ARTICLE 34-E
4	AUTONOMOUS VEHICLE DRIVING
5	Section 1290. Definitions.
б	1291. Operation of fully autonomous vehicles without a human
7	<u>driver.</u>
8	1292. Licensing.
9	1293. Insurance.
10	1294. Duties following crashes involving fully autonomous vehi-
11	<u>cles.</u>
12	1295. On-demand autonomous vehicle network.
13	<u>1296. Registration and title.</u>
14	<u>1297. Controlling authority.</u>
15	<u>1298. Operation of a motor vehicle with an automated driving</u>
16	<u>system by a human driver.</u>
17	<u>§ 1290. Definitions. For purposes of this article the following terms</u>
18	shall have the following meanings:
19	1. "Automated driving system" shall mean the hardware and software
20	that are collectively capable of performing the entire dynamic driving
21	task on a sustained basis, regardless of whether it is limited to a
22	specific operational design domain;
23	2. "Dynamic driving task or DDT" shall mean all of the real-time oper-
24	ational and tactical functions required to operate a vehicle in on-road
25	traffic, excluding the strategic functions such as trip scheduling and
26	selection of destinations and waypoints, and including without limita-
27	tion: lateral vehicle motion control via steering, longitudinal motion
28	control via acceleration and deceleration, monitoring the driving envi-

EXPLANATION--Matter in <u>italics</u> (underscored) is new; matter in brackets [-] is old law to be omitted.

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1	ronment via object and event detection, recognition, classification, and
1 2	response preparation, object and event response execution, maneuver
-	
3	planning; and enhancing conspicuity via lighting, signaling, and gestur-
4	ing;
5	3. "DDT Fallback" shall mean the response by the person or human driv-
6	er to either perform the DDT or achieve a minimal risk condition after
7	occurrence of a DDT performance-relevant system failure or failures or
8	upon operational design domain exit, or the response by an automated
9	driving system to achieve minimal risk condition, given the same circum-
10	stances;
11	4. "Fully autonomous vehicle" shall mean a motor vehicle equipped with
12	an automated driving system designed to function without a human driver
13	<u>as a level 4 or 5 system under SAE J3016;</u>
14	5. "Human driver" shall mean a natural person in the vehicle with a
15	valid license to operate a motor vehicle who controls all or part of the
16	dynamic driving task;
17	6. "Minimal risk condition" shall mean a condition to which a person,
18	human driver, or an ADS may bring a vehicle after performing the DDT
19	Fallback in order to reduce the risk of a crash when a given trip cannot
20	or should not be completed;
21	7. "On-demand autonomous vehicle network" shall mean a transportation
22	service network that uses a software application or other digital means
23	to dispatch or otherwise enable the pre-arrangement of transportation
24	with fully autonomous vehicles for purposes of transporting passengers
25	or goods, including for-hire transportation and transportation of
26	passengers or goods for compensation;
27	8. "Operational design domain or ODD" shall mean operating conditions
28	under which a given automated driving system is specifically designed to
29	function, including, but not limited to, environmental, geographical,
30	and time-of-day restrictions, and/or the requisite presence or absence
31	of certain traffic or roadway characteristics;
32	9. "Person" shall mean a natural person, corporation, business trust,
33	estate, trust, partnership, limited liability company, association,
34	joint venture, governmental agency, public corporation, or any other
35	legal or commercial entity;
36	10. "Request to intervene" shall mean notification by an automated
37	driving system to a human driver, that the human driver should promptly
38	begin or resume performance of part or all of the dynamic driving task;
30 39	
40	and 11. "SAE J3016" shall mean the Taxonomy and Definitions for Terms
	Related to Driving Automation Systems for On-Road Motor Vehicles
41	
42	published by SAE International in April 2021.
43	§ 1291. Operation of fully autonomous vehicles without a human driver.
44	1. A person may operate a fully autonomous vehicle on the public roads
45	of this state without a human driver provided that the automated driving
46	system is engaged and the vehicle meets the following conditions:
47	(a) If a failure of the automated driving system occurs that renders
48	that system unable to perform the entire dynamic driving task relevant
49	to its intended operational design domain, the fully autonomous vehicle
50	shall achieve a minimal risk condition;
51	(b) The fully autonomous vehicle is capable of operating in compliance
52	with the applicable traffic and motor vehicle safety laws and regu-
53	lations of this state when reasonable to do so, unless an exemption has
54	been granted by the department; and
55	(c) When required by federal law, the vehicle bears the required
56	manufacturer's certification label indicating that at the time of its

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manufacture it has been certified to be in compliance with all applica-
ble Federal Motor Vehicle Safety Standards, including reference to any
exemption granted by the National Highway Traffic Safety Administration.
2. Prior to operating a fully autonomous vehicle on the public roads
of this state without a human driver, a person shall submit a law
enforcement interaction plan to the department which shall describe:
(a) The means of communicating with a fleet support specialist who is
available during the times the vehicle is in operation;
(b) The means of safely removing the fully autonomous vehicle from the
roadway and steps to safely tow the vehicle;
(c) The means to recognize whether or not the fully autonomous vehicle
is in autonomous mode; and
(d) Any additional information the manufacturer or owner deems neces-
sary regarding the hazardous conditions or public safety risks associ-
ated with the operation of the fully autonomous vehicle.
§ 1292. Licensing. Notwithstanding the provisions of article nineteen
of this chapter, when an automated driving system installed on a motor
vehicle is engaged:
1. The automated driving system is considered the driver or operator,
for the purpose of assessing compliance with applicable traffic or motor
vehicle laws and shall be deemed to satisfy electronically all physical
acts required by a driver or operator of the vehicle; and
2. The automated driving system is considered to be licensed to oper-
ate the vehicle.
§ 1293. Insurance. Before operating a fully autonomous vehicle on
public roads in this state, a person shall submit proof of financial
responsibility satisfactory to the department that the fully autonomous
vehicle is covered by insurance or proof of self-insurance that satis-
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56 systems are governed exclusively by this article. The department is the

1	sole and exclusive state agency that may implement the provisions of
2	this article;
3	2. Fully autonomous vehicles and automated driving systems operating
4	pursuant to this article shall not be subject to section twelve hundred
5	twenty-six of this chapter; and
б	3. No state agency, political subdivision, municipality, or local
7	entity may prohibit the operation of fully autonomous vehicles, auto-
8	mated driving systems, or on-demand autonomous vehicle networks, or
9	otherwise enact or keep in force rules or ordinances that would impose
10	taxes, fees, or other requirements including performance standards,
11	specific to the operation of fully autonomous vehicles, automated driv-
12	ing systems, or on-demand autonomous vehicle networks in addition to the
13	requirements of this article.
14	§ 1298. Operation of a motor vehicle with an automated driving system
15	by a human driver. 1. A person may operate a motor vehicle equipped
16	with an automated driving system capable of performing the entire dynam-
17	ic driving task if:
18	(a) such automated driving system will issue a request to intervene
19	whenever the automated driving system is not capable of performing the
20	entire dynamic driving task with the expectation that the person will
21	respond appropriately to such a request; and
22	(b) the automated driving system is capable of being operated in
23	compliance with title seven of this chapter when reasonable to do so
24	unless an exemption has been granted by the department.
25	2. Nothing in this article prohibits or restricts a human driver from
26	operating a fully autonomous vehicle equipped with controls that allow
27	for the human driver to control all or part of the dynamic driving task.
28	§ 2. The vehicle and traffic law is amended by adding a new section
29	383-a to read as follows:
30	§ 383-a. Equipment required for certain automated motor vehicles. 1.
31	For purposes of this section, the terms "fully autonomous vehicle,"
32	"automated driving system," and "human driver" shall have the same mean-
33	ings as defined in section twelve hundred ninety of this chapter.
34	2. A fully autonomous vehicle which is designated to be operated
35	exclusively by the automated driving system for all trips is not subject
36	to motor vehicle equipment laws or regulations of this state which (a)
37	relate to or support motor vehicle operation by a human driver; and (b)
38	are not relevant for an automated driving system.
39	§ 3. The vehicle and traffic law is amended by adding a new section
40	301-c to read as follows:
41	<u>§ 301-c. Inspection criteria for fully autonomous vehicles. Section</u>
42	three hundred one of this article and any regulations promulgated by the
43	commissioner therewith shall only apply to a fully autonomous vehicle in
44	a manner consistent with the provisions of section three hundred eight-
45	y-three-a of this title.
46	§ 4. This act shall take effect on the ninetieth day after it shall
47	have become a law. Effective immediately, the addition, amendment and/or
48	repeal of any rule or regulation necessary for the implementation of
49	this act on its effective date are authorized to be made and completed

50 on or before such effective date.