## GENERAL ASSEMBLY OF NORTH CAROLINA SESSION 2017

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## HOUSE BILL 469\*

## Committee Substitute Favorable 4/24/17 Senate Transportation Committee Substitute Adopted 6/14/17 Senate Judiciary Committee Substitute Adopted 6/20/17 Fifth Edition Engrossed 6/26/17

	Short Title: H	Regulation of Fully Autonomous Vehicles.	(Public)			
	Sponsors:					
Referred to:						
	March 27, 2017					
1		A BILL TO BE ENTITLED				
2	AN ACT TO REGULATE THE OPERATION OF FULLY AUTONOMOUS MOTOR					
3	VEHICLES	ON THE PUBLIC HIGHWAYS OF THIS STATE.				
4	The General Assembly of North Carolina enacts:					
5	<b>SECTION 1.</b> Chapter 20 of the General Statutes is amended by adding a new					
6	Article to read:					
7		" <u>Article 18.</u>				
8		"Regulation of Fully Autonomous Vehicles.				
9	" <u>§ 20-400. Def</u>	initions.				
10	The following	ng definitions apply in this Article:				
11	<u>(1)</u>	Automated driving system The hardware and soft	ware that are			
12		collectively capable of performing the entire dynamic dri	<u>ving task on a</u>			
13		sustained basis, regardless of whether it is operating with	in a limited or			
14		unlimited operational design domain.				
15	<u>(2)</u>	Dynamic driving task All of the real-time operational and	tactical control			
16		functions required to operate a motor vehicle in motion or	which has the			
17		engine running, such as:				
18		a. Lateral vehicle motion control via steering.				
19		b. Longitudinal motion control via acceleration and dece	leration.			
20		c. Monitoring the driving environment via object and e				
21		recognition, classification, and response preparation.				
22		d. Object and event response execution.				
23						
24		<u>e.</u> <u>Maneuver planning.</u> <u>f.</u> <u>Enhancing conspicuity via lighting, signaling, and ges</u>	turing.			
25	<u>(3)</u>	Fully autonomous vehicle. – A motor vehicle equipped wit	-			
26		driving system that will not at any time require an occupant				
27		portion of the dynamic driving task when the automated dr				
28		engaged. If equipment that allows an occupant to perform an				
29		dynamic driving task is installed, it must be stowed or ma				
30		such a manner that an occupant cannot assume control of the				
31		the automated driving system is engaged.				
32	<u>(4)</u>	Minimal risk condition. – An operating mode in which a fu	lly autonomous			
33	<u></u>	vehicle with the automated driving system engaged achieve				



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1 2 3		safe state, bringing the vehicle to a compl failure of the automatic driving system that perform any portion of the dynamic driving ta	renders the vehicle unable to
4	<u>(5)</u>	Operator For the purposes of this Artic	cle, is a person as defined in
5		G.S. 20-4.01. An operator does not includ	
6 7	<u>(6)</u>	<u>autonomous vehicle performing solely strateg</u> <u>Operational design domain. – Specific condit</u>	
8 9		driving system is limited to effectively of limitations, roadway types, speed range, and e	· · · · ·
10 11	<u>(7)</u>	Strategic driving functions. – Control of navi scheduling or the selection of destinations	gational parameters such as trip and waypoints but does not
12	"8 20 401 Dam	include any portion of the dynamic driving ta	<u>SK.</u>
13 14		ulation of fully autonomous vehicles. r's License Not Required. – Notwithstanding t	be provisions of $C \leq 20.7$ and
14 15		e operator of a fully autonomous vehicle with	
16	-	equired to be licensed to operate a motor vehicle	
17		cle Registration Card in Vehicle. – For a f	
18		S. 20-49(4) and G.S. 20-57(c) are satisfied if the second	-
19	÷	sically or electronically, and readily available t	-
20	inspector.	souny of electromeany, and reading available t	o be hispected by an officer of
21		t or Legal Guardian Responsible for Certain V	iolations. – The parent or legal
22		nor is responsible for a violation of G.S. 20-135	
23		f a pickup, or G.S. 20-137.1, the child restraint	
24	fully autonomou		
25	(c1) Minin	num Age for Unsupervised Minors in Fully	Autonomous Vehicles It is
26	<u>unlawful for any</u>	parent or legal guardian of a person less than	<u>12 years of age to knowingly</u>
27	permit that pers	on to occupy a fully autonomous vehicle in m	notion or which has the engine
28	running unless th	ne person is under the supervision of a person 18	3 years of age or older.
29		tered Owner Responsible for Moving Violation	<b>A</b>
30		mous vehicle is registered is responsible for a	
31		ving violation, if the violation involves a fully a	
32 33		<u>ended Vehicle. – A vehicle shall not be cons</u> ny other provision of Chapter 20 of the Genera	
34		s vehicle with the automated driving system eng	
35	•	to Stop in the Event of a Crash. – If all of th	
36		onomous vehicle is involved in a crash, then the	-
37		l subsection (e) of G.S. 20-166 and subsection	
38	• • • •	ed satisfied, and no violation of those provision	
39	(1)	The vehicle or the operator of the vehicle pro-	
40		law enforcement agency to report the crash.	
41	<u>(2)</u>	The vehicle or operator of the vehicle promp	tly calls for medical assistance,
42		if appropriate.	-
43	<u>(3)</u>	For a reportable crash, the vehicle remains	at the scene of the crash until
44		vehicle registration and insurance informat	ion is provided to the parties
45		affected by the crash and a law enforcement	officer authorizes the vehicle to
46		be removed.	
47	<u>(4)</u>	For a nonreportable crash, the vehicle reported by the second sec	
48		immediate vicinity of the crash until vehi	cle registration and insurance
49		information is provided to the parties affected	•
50		ation. – A person may operate a fully autonome	ous vehicle if the vehicle meets
51	all of the followi	ng requirements:	

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1	(1)	Unless an exception or exemption has been granted under appli	cable State or
2	<u>(1)</u>	federal law, the vehicle:	cuble blute of
3		<u>a.</u> <u>Is capable of being operated in compliance with Articles</u>	3 3A 7 11
4		and 13 of this Chapter;	<u>, , , , , , , , , , , , , , , , , , , </u>
5		b. Complies with applicable federal law and regulations; and	nd
6		<u>c.</u> Has been certified in accordance with federal regul	
7		C.F.R. Part 567 as being in compliance with applicable	
8		vehicle safety standards and bears the required certific	
9		labels.	
10	(2)		section (f) of
11	<u> </u>	this section.	
12	<u>(3)</u>		
13	(4)		meeting the
14		applicable requirements of G.S. 20-279.21.	<u>C</u>
15	(5)		cle 3 of this
16	<u> </u>	Chapter, and, if registered in this State, the vehicle shall be ide	
17		registration and registration card as a fully autonomous vehicle.	
18	(h) Pre	eemption. – No local government shall enact any local law or ordina	
19		1 or operation of fully autonomous vehicles or vehicles equip	
20	-	ving system, other than regulation specifically authorized in Chap	-
21	Chapter 160A	of the General Statutes that is not specifically related to those ty	pes of motor
22	vehicles.		
23	" <u>§ 20-402. Ap</u>	pplicability to vehicles other than fully autonomous vehicles.	
24	<u>(a)</u> Def	finitions As used in this section, a "request to intervene" means n	otification by
25		e human operator that the operator should promptly begin or resume	e performance
26	-	f the dynamic driving task.	
27		plicability Operation of a motor vehicle equipped with an autor	
28	• •	e of performing the entire dynamic driving task with the expectation	
29	-	respond appropriately to a request to intervene is lawful under this	<u>S Chapter and</u>
30		provisions of this Chapter.	
31		<u>illy Autonomous Vehicle Committee.</u>	** 1 * 1
32		mmittee Established. – There is hereby created a Fully Autonor	nous Vehicle
33		thin the Department of Transportation.	
34 25		embership. – The following persons shall serve on the Committee:	
35	$\frac{(1)}{(2)}$		
36	$\frac{(2)}{(2)}$		
37	$\frac{(3)}{(4)}$		
38	$\frac{(4)}{(5)}$		
39 40	<u>(5)</u>	-	ers of Police,
40	(6)	designated by its Executive Director. A representative of the North Carolina Sheriffs' Association, of	designated by
41 42	<u>(6)</u>	its President.	<u>uesignated by</u>
43	(7)		hway Safaty
43 44	<u>(7)</u>	<u>Research Center, designated by the Director.</u>	<u>ilway Salety</u>
44	(8)	- ·	cle industry
46	<u>(6)</u>	designated by the Secretary of Transportation.	<u>ele maustry,</u>
47	<u>(9)</u>		nated by the
48	$(\mathcal{D})$	Attorney General, who is familiar with motor vehicle law.	inica by the
49	<u>(10</u>	· · · · ·	Secretary of
50	<u></u>	Transportation.	

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1	<u>(11)</u>	A representative of the trucking industry, designated by the	e North Carolina
2		Trucking Association.	
5	<u>(12)</u>	A planner from an urban area, designated by the North Car	rolina League of
-		Municipalities.	
í	<u>(13)</u>	A planner from a rural area, designated by the North Carolin	a Association of
)		County Commissioners.	
	<u>(14)</u>	Two members of the North Carolina Senate, designated by t	he President Pro
		Tempore of the Senate.	
)	<u>(15)</u>	Two members of the North Carolina House of Representat	ives, designated
		by the Speaker of the House.	
	(c) Duties	s The Committee shall meet regularly, and at a minimum for	our times a year,
	to consider matt	ters relevant to fully autonomous vehicle technology, revi	ew State motor
		they relate to the deployment of fully autonomous vehicles	
	highway system and municipal streets, make recommendations concerning the testing of fully		e testing of fully
	autonomous vehi	icles, identify and make recommendations for Department o	f Transportation
	traffic rules and ordinances, and make recommendations to the General Assembly on any		
	needed changes to State law.		
		- The Department of Transportation shall provide staff and	l meeting space,
		available resources, to the Committee."	
		<b>TION 2.</b> This act becomes effective December 1, 2017,	
		tted on or after that date. Prosecutions for offenses comm	
	effective date of this act are not abated or affected by this act, and the statutes that would be		
	applicable but for	r this act remain applicable to those prosecutions.	