

GENERAL ASSEMBLY OF NORTH CAROLINA  
SESSION 2019

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SENATE BILL 739  
Commerce and Insurance Committee Substitute Adopted 5/27/20  
Transportation Committee Substitute Adopted 6/10/20  
Finance Committee Substitute Adopted 6/17/20  
PROPOSED HOUSE COMMITTEE SUBSTITUTE S739-PCS45495-TU-40

Short Title: Personal Delivery Device/PDD/Delivery Robots.

(Public)

Sponsors:

Referred to:

May 18, 2020

1 A BILL TO BE ENTITLED  
2 AN ACT TO DEFINE AND REGULATE PERSONAL DELIVERY DEVICES.

3 The General Assembly of North Carolina enacts:

4 SECTION 1. G.S. 20-4.01 reads as rewritten:

5 "§ 20-4.01. Definitions.

6 Unless the context requires otherwise, the following definitions apply throughout this  
7 Chapter to the defined words and phrases and their cognates:

8 ...

9 (28a) Personal delivery device. – An electrically powered device intended for  
10 transporting cargo that is equipped with automated driving technology that  
11 enables device operation with or without the remote support and supervision  
12 of a human and that does not exceed (i) a weight of 500 pounds, excluding  
13 cargo, (ii) a length of 40 inches, and (iii) a width of 30 inches.

14 ~~(28a)~~(28b) Plug-in electric vehicle. – A four-wheeled motor vehicle that meets each  
15 of the following requirements:

16 ...

17 (49) Vehicle. – Every device in, upon, or by which any person or property is or  
18 may be transported or drawn upon a highway, excepting devices moved by  
19 human power or used exclusively upon fixed rails or tracks; provided, that for  
20 the purposes of this Chapter bicycles and electric assisted bicycles shall be  
21 deemed vehicles and every rider of a bicycle or an electric assisted bicycle  
22 upon a highway shall be subject to the provisions of this Chapter applicable  
23 to the driver of a vehicle except those which by their nature can have no  
24 application. This term shall not include a device which is designed for and  
25 intended to be used as a means of transportation for a person with a mobility  
26 impairment, or who uses the device for mobility enhancement, is suitable for  
27 use both inside and outside a building, including on sidewalks, and is limited  
28 by design to 15 miles per hour when the device is being operated by a person  
29 with a mobility impairment, or who uses the device for mobility enhancement.  
30 This term shall not include (i) an electric personal assistive mobility device as  
31 defined in subdivision (7b) of this ~~section~~-section or (ii) a personal delivery  
32 device as defined by this section. Unless the context requires otherwise, and



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1                   except as provided under G.S. 20-109.2, 47-20.6, or 47-20.7, a manufactured  
2                   home shall be deemed a vehicle.

3                   ...."

4                   **SECTION 2.** Article 3 of Chapter 20 of the General Statutes is amended by adding  
5 a new Part to read:

6   "Part 11D. Personal Delivery Devices.

7                   "**§ 20-175.7. Definitions.**

8                   The following definitions apply to this Part:

- 9                   (1)   Agent. – A director, officer, employee, or other person authorized to act on  
10                   behalf of a business entity.  
11                   (2)   Business entity. – A corporation, limited liability company, partnership, sole  
12                   proprietorship, or other legal entity authorized to conduct business under the  
13                   laws of this State.  
14                   (3)   Operator. – An agent who is 16 years of age or older and is charged with the  
15                   responsibility of monitoring and operating a personal delivery device.  
16                   (4)   Pedestrian area. – A sidewalk, crosswalk, school crosswalk, school crossing  
17                   zone, or safety zone.  
18                   (5)   Personal delivery device. – As defined in G.S. 20-4.01.

19                   "**§ 20-175.8. Personal delivery devices authorized; operation; equipment.**

20                   (a)   A business entity may operate a personal delivery device in a pedestrian area or on a  
21                   highway, with the rights and duties applicable to a pedestrian under this Chapter, subject to the  
22                   requirements and restrictions of this Part. Except as authorized in this Part, no person may operate  
23                   a personal delivery device in a pedestrian area or on a highway in this State.

24                   (b)   Operation of a personal delivery device shall comply with all of the following:

- 25                   (1)   The personal delivery device shall be monitored by an operator who is able to  
26                   exercise remote control over the navigation and operation of the personal  
27                   delivery device.  
28                   (2)   The personal delivery device may not be operated in a pedestrian area at a  
29                   speed greater than 10 miles per hour.  
30                   (3)   The personal delivery device may not be operated on a highway except as  
31                   necessary to cross a highway or along a highway if a sidewalk is not provided  
32                   or accessible. When operating along a highway under this subdivision, the  
33                   following additional restrictions apply:  
34                   a.    The personal delivery device shall be operated on the shoulder or as  
35                   close as practicable to the extreme right of the highway in the direction  
36                   of authorized traffic movement and shall yield the right-of-way to all  
37                   vehicles.  
38                   b.    The personal delivery device may not be operated on a highway at a  
39                   speed greater than 20 miles per hour.  
40                   c.    The personal delivery device may not be operated on a highway with  
41                   a speed limit greater than 35 miles per hour.  
42                   (4)   The personal delivery device shall obey all traffic and pedestrian control  
43                   devices and signs.  
44                   (5)   The personal delivery device shall yield the right-of-way to all human  
45                   pedestrians.  
46                   (6)   The personal delivery device shall not unreasonably interfere with any vehicle  
47                   or pedestrian.  
48                   (7)   The personal delivery device shall not transport materials regulated under the  
49                   Hazardous Materials Transportation Act (49 U.S.C. §§ 5101 – 5128) that  
50                   require placarding pursuant to Subpart F of 49 C.F.R. Part 172 (49 C.F.R. §§  
51                   172.500 – 172.560).

1 (c) A personal delivery device shall be equipped with all of the following:

2 (1) A marker that clearly states the name and contact information of the owner  
3 and a unique identification number.

4 (2) A braking system that enables the device to come to a controlled stop.

5 (3) When operated at night, lights on the front and rear of the personal delivery  
6 device that are visible and recognizable under normal atmospheric conditions  
7 from at least 500 feet on all sides of the personal delivery device.

8 (d) A violation of this section is an infraction.

9 **"§ 20-175.9. Local regulation.**

10 For the purpose of assuring the safety of persons using highways and sidewalks, a local  
11 government having jurisdiction over public streets, sidewalks, alleys, bridges, and other ways of  
12 public passage may by ordinance regulate time and place of the operation of personal delivery  
13 devices, but shall not prohibit their use.

14 **"§ 20-175.10. Insurance.**

15 A business entity that operates a personal delivery device under this Part shall maintain an  
16 insurance policy that includes general liability coverage of not less than one hundred thousand  
17 dollars (\$100,000) per claim for damages arising from the operation of the personal delivery  
18 device."

19 **SECTION 3.(a)** G.S. 20-175.9, as enacted by Section 2 of this act, reads as rewritten:

20 **"§ 20-175.9. Local regulation.**

21 For the purpose of assuring the safety of persons using highways and sidewalks, a local  
22 government having jurisdiction over public streets, sidewalks, alleys, bridges, and other ways of  
23 public passage may by ordinance regulate the time and place of the operation of personal delivery  
24 devices, but shall not prohibit their use. prohibit operation of personal delivery devices within its  
25 jurisdiction if the local government determines that the prohibition is necessary."

26 **SECTION 3.(b)** This section becomes effective December 1, 2022. Any ordinance  
27 regulating time and place of operation of personal delivery devices adopted by a local  
28 government in accordance with G.S. 20-175.9 before the effective date of this section shall  
29 remain in effect until repealed by that local government.

30 **SECTION 4.** G.S. 20-146.2(a)(4) reads as rewritten:

31 "(4) Plug-in electric vehicles as defined in ~~G.S. 20-4.01(28a)~~, G.S. 20-4.01(28b),  
32 regardless of the number of passengers in the vehicle. These vehicles must be  
33 able to travel at the posted speed limit while operating in the HOV lane."

34 **SECTION 5.** G.S. 20-183.2(b)(9) reads as rewritten:

35 "(9) It is not a plug-in electric vehicle as defined in  
36 ~~G.S. 20-4.01(28a)~~; G.S. 20-4.01(28b)."

37 **SECTION 6.** G.S. 20-286(10) is amended by adding a new sub-subdivision to read:

38 "c. The term "motor vehicle" does not include an electrically powered  
39 device that is equipped with automated driving technology that  
40 enables device operation with or without remote support and  
41 supervision of a human, and to which all of the following apply: (i) the  
42 device does not exceed a weight of 750 pounds, excluding cargo, (ii)  
43 the device does not exceed a length of 40 inches when not linked with  
44 other devices, and (iii) the device does not exceed a width of 36 inches.  
45 An electrically powered device that is equipped with automated  
46 driving technology that enables device operation with or without  
47 remote support and supervision of a human and that exceeds any of  
48 the dimensions set out in this sub-subdivision is included in the term  
49 "motor vehicle" under this Article, and the device is subject to the  
50 provisions of Article 18 of this Chapter if it falls within the definition  
51 of "fully autonomous vehicle" under G.S. 20-400(3)."

1                   **SECTION 7.** Except as otherwise provided, this act becomes effective December 1,  
2   2020, and applies to offenses committed on or after that date.