

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

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



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...."

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

"Part 11D. Personal Delivery Devices.

"§ 20-175.7. Definitions.

The following definitions apply to this Part:

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

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

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

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

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

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

- 1 (1) A marker that clearly states the name and contact information of the owner
2 and a unique identification number.
3 (2) A braking system that enables the device to come to a controlled stop.
4 (3) When operated at night, lights on the front and rear of the personal delivery
5 device that are visible and recognizable under normal atmospheric conditions
6 from at least 500 feet on all sides of the personal delivery device.
7 (d) A violation of this section is an infraction.

8 **"§ 20-175.9. Local regulation.**

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

13 **"§ 20-175.10. Insurance.**

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

18 **"§ 20-175.11. Registration; fee.**

19 A business entity may not operate a personal delivery device without first registering the
20 device with the Division of Motor Vehicles. Information identifying the owner and the unique
21 identification number of the device shall be submitted on a form prescribed by the Division along
22 with a one-time fee of two hundred fifty dollars (\$250.00) per device operated by the business
23 entity. The Division shall maintain a list of registered personal delivery devices."

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

25 **"§ 20-175.9. Local regulation.**

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

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

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

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

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

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

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

- 43 "c. The term "motor vehicle" does not include an electrically powered
44 device that is equipped with automated driving technology that
45 enables device operation with or without remote support and
46 supervision of a human, and to which all of the following apply: (i) the
47 device does not exceed a weight of 750 pounds, excluding cargo, (ii)
48 the device does not exceed a length of 40 inches when not linked with
49 other devices, and (iii) the device does not exceed a width of 36 inches.
50 An electrically powered device that is equipped with automated
51 driving technology that enables device operation with or without

1 remote support and supervision of a human and that exceeds any of
2 the dimensions set out in this sub-subdivision is included in the term
3 "motor vehicle" under this Article, and the device is subject to the
4 provisions of Article 18 of this Chapter if it falls within the definition
5 of "fully autonomous vehicle" under G.S. 20-400(3)."

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