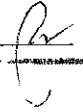


FIFTEENTH CONGRESS OF THE REPUBLIC )  
OF THE PHILIPPINES )  
First Regular Session )

SECRETARY  
OFFICE OF THE SECRETARY

10 JUL 19 P4:25

SENATE  
S. No. 1584

RECEIVED BY: 

Introduced by Senator Miriam Defensor Santiago

#### EXPLANATORY NOTE

The 1987 Constitution, Article 2 Sections 10 and 11 read:

Section 11. The State values the dignity of every human person and guarantees full respect for human rights.

There are motor vehicles designed to provide the desirable benefits of reducing harmful pollutants and operating with greater fuel efficiency include gasoline-electric hybrid and electric-only vehicles, and in the foreseeable future may include vehicles powered by hydrogen fuel cell and other engine designs that rely on fuels and technologies other than the gasoline-powered internal combustion engine. These vehicle engine designs are likely to operate with virtually no sound being produced by the vehicle.

The recently concluded Philippine International Motorshow was reportedly a revelation of things to come; the inclusion of hybrid vehicles among the cars on display came as a refreshing variation. However, an ongoing study in the United States has produced some of the first scientific evidence that hybrid cars may pose a hazard to certain pedestrians.

Blind pedestrians cannot locate and evaluate traffic by sight and instead must listen to traffic to discern its speed, direction, and other attributes in order to travel safely and independently. Other people, on the other hand, including pedestrians who are not blind, bicyclists, runners, and small children, benefit from multi-sensory information available from vehicle traffic, including the sound of vehicle engines;

Hence, failure to take immediate action assuring that blind pedestrians can hear hybrid and other silent vehicles in all phases of their operation will inevitably lead to pedestrian injuries and fatalities.

Such accidents are preventable through vehicle designs which take into account the multi-sensory nature of traffic detection and avoidance, and require that vehicles emit a minimum level of sound designed to alert all pedestrians, especially blind pedestrians, to the presence of such vehicles.

This bill seeks to direct the Secretary of the Department of Transportation and Communication (DOTC) to conduct a study and establish a motor vehicle safety standard that will provide for means of alerting blind and other pedestrians of any motor vehicle operation.<sup>1</sup>

*acs* *Miriam Defensor Santiago*  
MIRIAM DEFENSOR SANTIAGO

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<sup>1</sup> This bill was originally filed in the Fourteenth Congress, Second Regular Session

10 JUL 19 P4:25

SENATE  
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1 AN ACT

2 TO DIRECT THE SECRETARY OF TRANSPORTATION AND COMMUNICATION TO  
3 STUDY AND ESTABLISH A MOTOR VEHICLE SAFETY STANDARD THAT PROVIDES  
4 FOR MEANS OF ALERTING BLIND AND OTHER PEDESTRIANS OF MOTOR VEHICLE  
5 OPERATION.  
6

7 *Be it enacted by the Senate and the House of Representatives of the Philippines in*  
8 *Congress assembled:*  
9

10 SECTION 1. *Short Title.* – This Act shall be known as the “Pedestrian Safety  
11 Enhancement Act”.

12 SECTION 2. *Declaration of Policy.* – It is the policy of state to value the dignity of every  
13 human person and guarantee full respect for human rights.

14 SECTION 3. *Definition of Terms.* – As used in this Act, the term:

15 (1) “Secretary” means the Secretary of Transportation and Communication; and

16 (2) “Motor vehicle” is any vehicle operated or driven upon a public highway which is  
17 propelled by any power other than muscular power, except:

18 (a) Electrically-driven mobility assistance devices operated or driven by a person  
19 with a disability;

20 (b) Vehicles which run only upon rails or tracks;

21 (c) Farm type tractors and all terrain type vehicles used exclusively for  
22 agricultural purposes, or for snow plowing, other than for hire, farm equipment, including  
23 self-propelled machines used exclusively in growing, harvesting or handling farm  
24 produce;

1 (d) Self-propelled caterpillar or crawler-type equipment while being operated on  
2 the contract site; and

3 (e) Fire and police vehicles other than ambulances.

4 SECTION 4. *Study of Method to Protect Blind and other Pedestrians.* –

5 (a) Required Study – Not later than 90 days following enactment of this Act, the  
6 Secretary shall conduct a study to –

7 (1) determine the most practical means of assuring that blind and other  
8 pedestrians receive substantially similar information to information such pedestrians  
9 receive from sound emitted by vehicles that use internal combustion engines;

10 (2) determine the minimum level of sound emitted from a motor vehicle that is  
11 necessary to provide blind pedestrians with the information needed to make safe travel  
12 judgments; and

13 (3) consider whether the minimum level of sound requirement or another method  
14 that conveys information essential for pedestrian safety provides the most reliable  
15 information to support safe travel of blind and other pedestrians, including:

16 (A) which method provides blind and other pedestrians the greatest  
17 amount of information regarding location, motion, speed, and direction of travel  
18 of a motor vehicle;

19 (B) the cost and feasibility of each method, including the cost and  
20 feasibility of equipping each individual pedestrian with any technology necessary  
21 to receive information; and

22 (C) which method assures the least reliance by blind and other pedestrians  
23 upon technology they must possess when traveling and thereby provides the  
24 greatest amount of independence and opportunity for spontaneous travel for these  
25 pedestrians.

1 (b) Required Consultation – When conducting the study, the Secretary shall:

2 (1) review all available research regarding the effect of traffic sounds on  
3 pedestrian safety, and commission such research as may be necessary;

4 (2) consult consumer groups representing individuals who are blind, other  
5 pedestrians, cyclists, and advocates for children; and

6 (3) consult with automobile manufacturers and professional organizations  
7 representing them.

8 (c) Report – The Secretary shall complete the study within 2 years of its  
9 commencement and shall transmit a report of the findings to Congress.

10 SECTION 5. Minimum Sound Requirement for Motor Vehicles. – Not later than 90 days  
11 after conclusion of the study required under Section 4, the Secretary shall promulgate a motor  
12 vehicle safety standard, to establish a method for alerting blind and other pedestrians of the  
13 presence and operation of nearby motor vehicles to enable such pedestrians to travel safely and  
14 independently in urban, rural, and residential environments. Such standard shall provide that  
15 every motor vehicle be equipped with a method –

16 (1) to provide blind and other pedestrians with a non-visual alert regarding the location,  
17 motion, speed, and direction of travel of a motor vehicle that provides substantially the same  
18 protection of such pedestrians as that provided by a motor vehicle with an internal combustion  
19 engine; and

20 (2) that will permit a blind or other pedestrian to determine the location, motion, speed,  
21 and direction of travel of a motor vehicle with substantially the same degree of certainty as such  
22 pedestrians are able to determine the location, motion, speed, and direction of travel of a motor  
23 vehicle with an internal combustion engine.

24 SECTION 6. *Appropriations.* – To carry out the provisions of this Act, such amount as  
25 may be necessary is hereby authorized to be appropriated from the National Treasury.

1           SECTION 7. *Separability Clause.* – If any provision or part hereof, is held invalid or  
2 unconstitutional, the remainder of the Act or the provision not otherwise affected shall remain  
3 valid and subsisting.

4           SECTION 8. *Repealing Clause.* - Any law, presidential decree or issuance, executive  
5 order, letter of instruction, administrative order, rule or regulation contrary to, or inconsistent  
6 with the provisions of this Act is hereby repealed, modified or amended accordingly.

7           SECTION 9. *Effectivity Clause.* - This Act shall take effect fifteen (15) days after its  
8 publication in at least two (2) newspapers of general circulation.

9  
10           Approved,