In line 3 of the title, delete the first "and"; after "746.07" insert ", 4955.50, 4955.51, 4955.52, 4955.53, 4955.54, and 4955.99"

In line 12, delete "and"; after "746.07" insert ", 4955.50, 4955.51, 4955.52, 4955.53, 4955.54, and 4955.99"

After line 320, insert:

"Sec. 4955.50. As used in sections 4955.50 to 4955.54 of the Revised Code:

"Wayside detector system" means an electronic device or a series of connected devices that scan passing trains, rolling stock, on-track equipment, and their component equipment and parts for defects.

"Defects" include hot wheel bearings, hot wheels, defective bearings that are detected through acoustics, dragging equipment, excessive height or weight, shifted loads, low hose, rail temperature, and wheel condition.

"Wayside detector communications systems" means technology that uses wireless communications systems or algorithms to allow
communication between one wayside detector system with another wayside detector system in order to better predict and detect defects.

Sec. 4955.51. (A) No person shall install or operate a wayside detector system in this state unless it is equipped, at minimum, with the following technology:

(1) A hot box detector;

(2) A hot wheel detector;

(3) A dragging equipment detector;

(4) An audible alarm that operates in accordance with section 4955.52 of the Revised Code.

(B)(1) Except as otherwise provided in division (B)(2) of this section, any person responsible for the installation of wayside detector systems alongside or on a railroad shall ensure that each system location is not more than ten miles from the adjacent system location.

(2) If the natural terrain does not allow for the placement of the next adjacent system location within ten miles from the prior system location, the next adjacent system location shall be installed not more than fifteen miles from the prior system location.

(C) If the wayside detector systems installed on or alongside a railroad do not comply with the requirements of division (B) of this section and are further than fifteen miles apart, the operator of any train, rolling stock, or on-track equipment passing between the noncompliant systems shall reduce speed to not more than ten miles per hour until the train, rolling stock, or on-track equipment passes the next available
wayside detector system and is issued a "no defects" message from the system.

**Sec. 4955.52.** (A) No person shall install or operate a wayside detector system in this state unless the audible alarm for the system meets both of the following requirements:

(1) The alarm is assigned to the "AAR Frequency" that is assigned to the specific territory in which the system is located;

(2) In the event of a defect, the alarm sounds over the assigned radio channel or frequency not less than three consecutive times with each audible signal lasting not less than five seconds and with not less than five seconds of silence between each audible signal.

(B) No person shall install or operate a wayside detector system in this state unless the system complies with both of the following:

(1) The inspection results generated by the wayside detector system provide an audible message, delivered over the applicable radio channel or frequency that contains the following information delivered to the operator of the train, rolling stock, or on-track equipment:

   (a) The system location milepost and name;

   (b) The track number, if applicable;

   (c) The total number of axles on the train, including motive power;

   (d) If a defect is found, the location of that defect within the train, rolling stock, on-track equipment, or its component parts or equipment.
(e) If no defect is found, the train, rolling stock, or on-track equipment speed and a message that no defects were found.

(2) If a defect is found by the wayside detector system, in addition to the audible alarm signal given in accordance with division (A) of this section, the information generated by the system under division (B)(1) of this section shall be repeated not less than three times over the radio channel or frequency. There shall be twenty seconds of silence between those information messages.

Sec. 4955.53. (A) The operator of a train, rolling stock, or on-track equipment that receives a defect message from a wayside detector system based on either a defect detected by that system or through the operation of wayside detector communications systems shall do all of the following:

(1) Stop the train, rolling stock, or on-track equipment in accordance with the safety procedures issued by the managing railroad company;

(2) Inspect the location of the defect from a position on the ground;

(3) Note and present all inspection results to the appropriate officer of the railroad company, a local dispatcher, or another qualified person based on company protocol;

(4) Based on the inspection results, and if the operator believes it is safe, proceed along the route at a speed not exceeding ten miles per hour if carrying hazardous materials or thirty miles per hour if not carrying hazardous materials;

(5) Based on the inspection results, and if the operator
believes continued operation is not safe, the operator shall proceed in accordance with the procedures specified in division (B)(2) of this section.

(B) If the operator receives a defect message from a wayside detector system and that defect was previously detected by a prior wayside detector system or wayside detector communications system along the route, the operator shall do both of the following:

(1) Stop the train, rolling stock, or on-track equipment in accordance with the safety procedures issued by the managing railroad company;

(2) Have the train, rolling stock, on-track equipment, or applicable component or equipment fully inspected by a qualified person to make a determination of whether it is safe to proceed.

(C) The operator shall not allow the train, rolling stock, or on-track equipment to proceed after a defect message under division (B) of this section unless and until the qualified person has thoroughly inspected the defect, made any necessary repairs, and declared it safe to proceed.

(D) All inspections performed under this section shall be made on the ground. No person shall perform an inspection under this section from within or on a vehicle or any other mode of transportation.

(E)(1) If the wayside detector system indicates that the number of axles on a train is less than the reported number of axles for that train, the operator shall report the discrepancy to the proper railroad authority.

(2) If the wayside detector system indicates that the
number of axles on a train is more than the reported number of
axles for that train, the operator shall report the discrepancy
to the proper railroad authority. If the discrepancy is not
resolved within five miles of receiving the report by the system
by identifying the extra equipment or cars, the operator shall
stop the train. The operator shall not proceed until the
discrepancy is resolved, all extra equipment or cars are
identified, and any necessary documentation is issued.

Sec. 4955.54. Any railroad company doing business in this
state shall ensure that its employees are aware of and
understand the requirements of sections 4955.50 to 4955.53 of
the Revised Code.

Sec. 4955.99. Whoever knowingly violates section 4955.51,
4955.52, 4955.53, or 4955.54 of the Revised Code shall be fined
not less than twenty-five thousand dollars for each violation."

The motion was __________ agreed to.

SYNOPSIS

Wayside detector system regulations

R.C. 4955.50, 4955.51, 4955.52, 4955.53, 4955.54, and
4955.99

Prohibits the installation or operation of wayside
detector systems in Ohio that do not meet specific equipment and
installation regulations.

Requires all wayside detector systems to be installed
generally 10 miles apart, but at most not more than 15 miles
apart if the natural terrain requires a greater distance.

Requires the operator of a train, rolling stock, or on-track equipment to slow down to 10 miles per hour or less if travelling between systems that do not meet the distance requirements.

Specifies procedures that the operator of a train, rolling stock, or on-track equipment must follow if a wayside detector system indicates a defect or axle discrepancy.

Requires all railroad companies to ensure that their employees know the state laws and statutes pertaining to the wayside detector systems.

Fines any person or railroad company that violates the amendment's provisions not less than $25,000 for each violation.