



## **School Vehicle Sensor System**

### **Request for Quotation**

**Due by June 18, 2018**

The New Jersey Department of Children and Families' (DCF) and the Office of Education announces a Request for Quotation for the purchase and installation of 65 sensors on newly-manufactured school vehicles in compliance with the requirements of Abigail's Law N.J.S.A. 39:3B-26 and the regulations promulgated by the New Jersey State Board of Education at N.J.A.C. 39:1-1 (the "Regulations").

#### **Applicant Eligibility Requirements**

Any newly-manufactured school buses and school vehicles manufactured after April 16, 2018 vehicles used to transport enrolled children to or from school, school connected activity, day camp, summer day camp, summer residence camp, nursery school, child care center, preschool center or other similar places of education, must meet this regulation and specifications. **See Attachment A.**

#### **Applicant Document Requirements:**

- Copy of one quotation-Your quotation shall include separate pricing for:
  - 1) A front camera and monitor alert system in compliance with the Regulations with all equipment necessary to mount and install the system and a rear camera and monitor alert system in compliance with the regulations with all equipment necessary to mount and install the system;
  - 2) Cost of installation by qualified technicians. Your quotation must include any warranty for the products and installation services.
- You shall agree to accept these conditions:
  - 1) The products must be delivered and installed within 20 calendar days of DCF's acceptable of your quotation. The vehicles will arrive in three waves, 20 in June, 30 in July and 15 in August;
  - 2) The selected bidder will complete the installations at their place of business or on-site at the NJ MVC Distribution Center located in Ewing NJ. Installation must be coordinated with the delivery to vehicle dealer to be announced or the NJ MVC Distribution Center.
- See **Attachment B** for checklist of supporting documents that must be submitted in response to this Request for Quotation.

All questions may be addressed to: [DCF.ASKRFP@DCF.NJ.GOV](mailto:DCF.ASKRFP@DCF.NJ.GOV) by **June 12, 2018.**

Please email application packet in its entirety to: [DCF.ASKRFP@DCF.NJ.GOV](mailto:DCF.ASKRFP@DCF.NJ.GOV)  
**by due date: June 18, 2018.**      Subject Line: School Vehicle Sensor System

Attachment A



**New Jersey  
Motor Vehicle Commission**

P.O. Box 160  
Trenton, New Jersey 08656-0160

STATE OF NEW JERSEY

Philip D. Murphy  
Governor

Sheila Y. Oliver  
Lt. Governor

B. Sue Fulton  
Acting Chair and Chief Administrator

April 9, 2018

To all School Bus Companies and Boards of Education:

In an effort to assist a school bus driver's awareness of the presence of a person(s) or object(s) in the front and rear of a school bus, New Jersey enacted "Abigail's Law." The law at N.J.S.A. 39:3B-26 requires newly-manufactured school buses as defined in N.J.S.A. 39:1-1 be equipped with sensors.

Pursuant to N.J.S.A. 39:3B-26 the design and installation of the sensor system shall conform to regulations promulgated by the State Board of Education (BOE), in consultation with the Chief Administrator of the New Jersey Motor Vehicle Commission (MVC).

Attached, is the BOE's "School Bus Sensor System" regulation, N.J.A.C. 6A: 27-7.13. It contains the design and installation specifications required on all school buses and school vehicles manufactured after April 16, 2018.

The vehicles affected that must meet the BOE sensor system regulations are "School Vehicle Type I [16 or more passengers]," "School Vehicle Type II [less than 16 passengers]," and any vehicles used to transport enrolled children to or from a school, school connected activity, day camp, summer day camp, summer residence camp, nursery school, child care center, preschool center or other similar places of education.

Also attached is the "School Bus Sensor System Inspection Procedure," which outlines the inspection procedure. The MVC will use it when inspecting all "Type A, B, C, and D" school buses and all "Type S" school vehicles to ensure that the vehicles manufactured after April 16, 2018 meet all the BOE regulations associated with the school bus sensor systems.

If you have any questions regarding the sensor system installation, the affected vehicles or the sensor system inspection procedure, please contact the MVC Operations Bus Unit at (609) 633-9473.

Sincerely,

A handwritten signature in black ink, appearing to read "B. Sue Fulton".

B. Sue Fulton,  
Acting Chair and Chief Administrator

c. T. Bednarz

Attachments

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Visit us at [www.njmvc.gov](http://www.njmvc.gov)  
*New Jersey is an Equal Opportunity Employer*

## N.J.A.C 6A:27-7.13 School Bus Sensor System

- (a) The following words and terms shall have the following meanings when used in this section, unless the context clearly indicates otherwise:

"School bus" means as set forth in N.J.S.A. 39:1-1.

"Sensor system" means a system utilizing technology such as, but not limited to, radar, video, sound, or infrared technology that shall be capable of detecting the presence of a person(s) or object(s) as measured by the placement of a 12-inch high by 12-inch diameter cylinder within a minimum area defined as follows:

- 1. For vehicles with a GVWR of 10,000 pounds or less, five feet laterally to each side and extending 10 feet frontward from the center of the vehicle's front bumper, and five feet laterally to each side and extending 10 feet rearward from the center of the vehicle's rear bumper; or
  - 2. For vehicles with a GVWR over 10,000 pounds, 10 feet laterally to each side and extending 10 feet frontward from the center of the vehicle's front bumper, and 10 feet laterally to each side and extending 10 feet rearward from the center of the vehicle's rear bumper.
- (b) Every school bus, as defined in this section, manufactured after April 16, 2018, shall be equipped with a sensor system as defined in this section.
    - 1. This subsection shall not be construed to prohibit the equipping of a school bus with a sensor system to determine the presence of a person(s) or object(s) in the side areas of the school bus, in addition to the front and rear of the bus.
  - (c) The sensor system shall include an audible and visual alert signal placed in the driver's compartment to alert the driver when a person(s) or object(s) is detected within the sensor's designated area or a video monitor placed in the driver's compartment relaying the image of the sensor's designated area.
    - 1. The audible alert signal for the sensor shall be a sound that is distinctive from all other audible alert signals on the bus.
    - 2. The alert signal shall identify for the driver the location near the vehicle in which the person(s) or object(s) is detected, except when a video monitor is used.
  - (d) The rear sensor system shall activate only and always with the engagement of reverse gear and shall deactivate when the reverse gear is disengaged.
  - (e) The front sensor system shall activate in any gear other than reverse gear every time any passenger entrance door opens. The front sensor system shall deactivate:
    - 1. With the engagement of reverse gear; and
    - 2. When in any gear other than reverse, after all passenger doors are closed and:
      - i. The vehicle has reached a speed of 10 miles per hour; or
      - ii. Ten seconds have elapsed after closure of the passenger door(s).

## History

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New Rule, R.2017 d.187, effective October 16, 2017.

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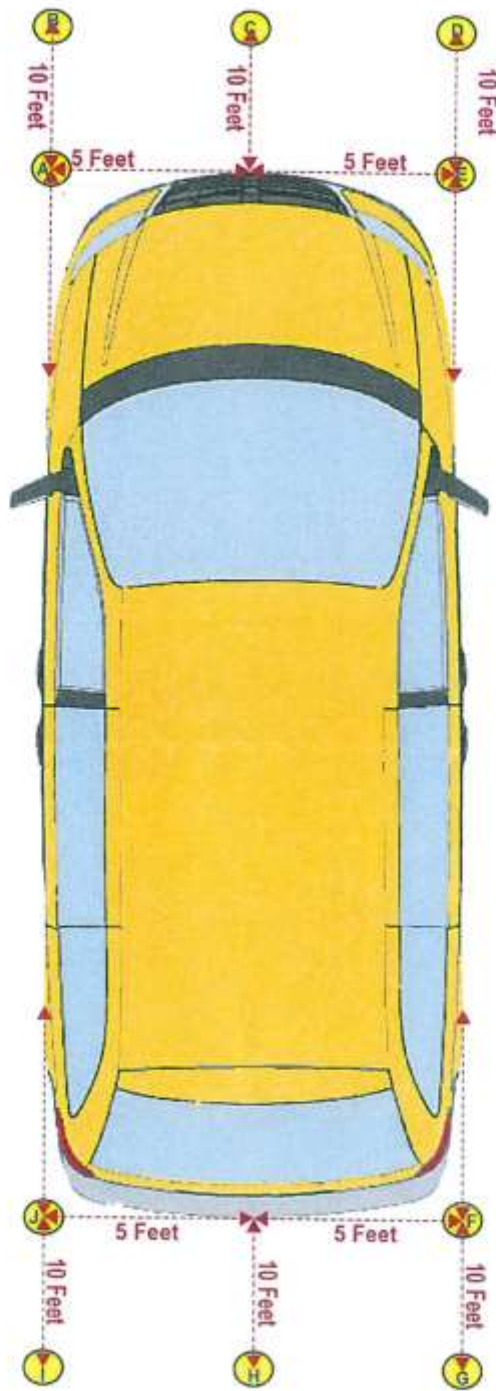
## **BEGIN INSPECTION**

1. Ensure the inspection area around the vehicle is free of obstacles that the system might detect. Ensure drive wheels are chocked, parking brake is set.
2. Proceed to driver's compartment where the sensor / video system monitor screen is located. The sensor system shall include an audible and visual alert signal to alert the driver when a person(s) or object(s) is detected within the sensor designed area. The video monitor system in the driver's area compartment shall relay an image of the sensor designated area.
3. Start vehicle's engine, open any passenger entrance door to activate system.

## **BEGIN FRONT MONITORING SYSTEM CHECK**

1. Ensure all front and rear sensors / video are active on the system monitor screen. (Rear sensors / video will only function with gear selector in reverse)
  2. Place a 12" by 12" diameter **cylinder five feet laterally to the left measuring from the center of the bumper to position (A) as illustrated in Fig(s)**. The system shall detect the cylinder. The sensor system shall activate an audible alarm and a visual alert signal. The audible alert signal for the sensor shall be a sound that is distinctive from all other audible alert signals on the vehicle. The video system shall display a visual image on the monitor.
  3. Move the 12" by 12" diameter **cylinder to position (B) as illustrated in attached diagram. Check System.**
  4. Move the 12" by 12" diameter **cylinder to position (C) as illustrated in attached diagram. Check System.**
  5. Move the 12" by 12" diameter **cylinder to position (D) as illustrated in attached diagram. Check System.**
  6. Move the 12" by 12" diameter **cylinder to position (E) as illustrated in attached diagram. Check System.**
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**VEHICLE WITH GWVR LESS 10,000 LBS OR LESS**



**FIGURE 1.**

VEHICLE GVW OVER 10,000 LBS

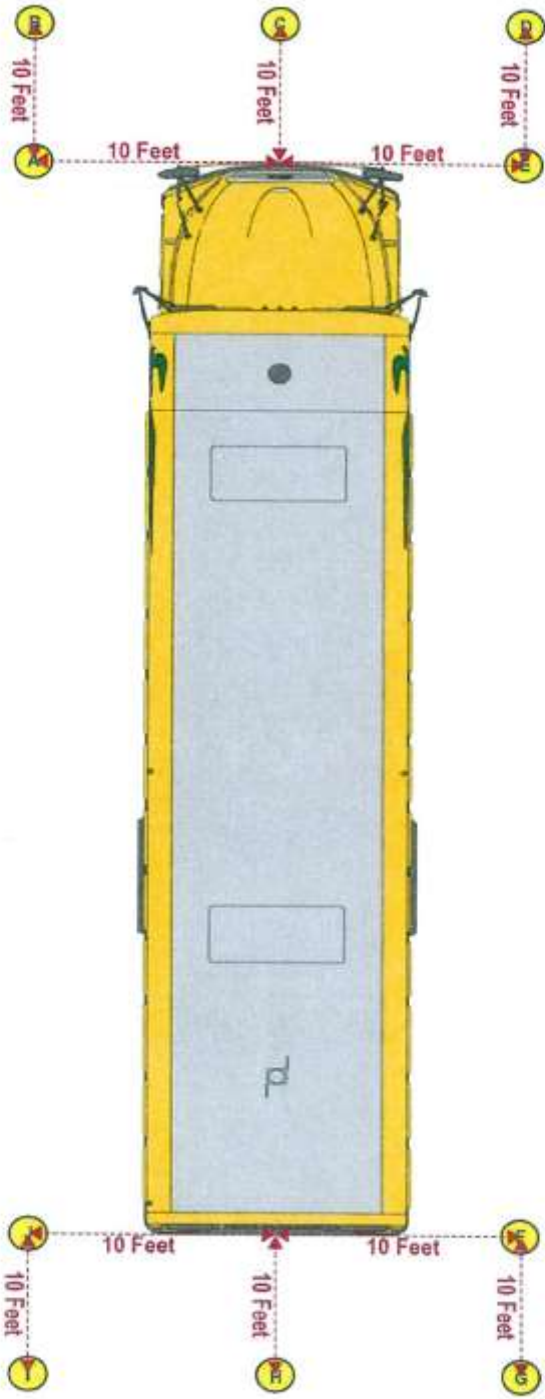


FIGURE 3.



**STATE OF NEW JERSEY  
DEPARTMENT OF THE TREASURY  
DIVISION OF PURCHASE AND PROPERTY**

**Attachment B-Checklist**

**INFORMATION SHEET AND CHECKLIST FOR WAIVERS  
AND DELEGATED PURCHASING AUTHORITY (DPA) TRANSACTIONS**

VENDOR NAME: \_\_\_\_\_

**THIS CHECKLIST IS ONLY A GUIDE TO ASSIST VENDORS IN LOCATING AND COMPILING ALL REQUIRED COMPLIANCE FORMS FOR WAIVERS AND DPA TRANSACTIONS. VENDORS ARE REQUIRED TO ENSURE THAT ALL COMPLIANCE REQUIREMENTS HAVE BEEN MET.**

	<b>VENDOR HAS INCLUDED THE FORM</b>
<a href="#"><u>STATE OF NEW JERSEY STANDARD TERMS AND CONDITIONS</u></a> (For Waivers and DPAs)	<input type="checkbox"/>
<a href="#"><u>WAIVERED CONTRACTS SUPPLEMENT TO THE STATE OF NEW JERSEY STANDARD TERMS AND CONDITIONS</u></a> (For Waivers only)	<input type="checkbox"/>
<a href="#"><u>OWNERSHIP DISCLOSURE FORM</u></a>	<input type="checkbox"/>
<a href="#"><u>DISCLOSURE OF INVESTIGATIONS AND OTHER ACTIONS INVOLVING VENDOR</u></a>	<input type="checkbox"/>
<a href="#"><u>DISCLOSURE OF INVESTMENT ACTIVITIES IN IRAN FORM</u></a>	<input type="checkbox"/>
<a href="#"><u>TWO-YEAR CHAPTER 51/EXECUTIVE ORDER 117 VENDOR CERTIFICATION AND DISCLOSURE OF POLITICAL CONTRIBUTIONS</u></a>	<input type="checkbox"/>
<a href="#"><u>CHAPTER 271 VENDOR CERTIFICATION AND POLITICAL DISCLOSURE FORM</u></a>	<input type="checkbox"/>
<a href="#"><u>MACBRIDE PRINCIPLES FORM</u></a>	<input type="checkbox"/>
<a href="#"><u>PROOF OF BUSINESS REGISTRATION</u></a>	<input type="checkbox"/>
<b>CERTIFICATE OF INSURANCE / ACORD</b>	<input type="checkbox"/>
<a href="#"><u>SOURCE DISCLOSURE FORM</u></a> (To be used only where the contract is primarily for services)	<input type="checkbox"/>
<b>AFFIRMATIVE ACTION COMPLIANCE (Submit one of the following)</b>	
<b>NEW JERSEY CERTIFICATE OF EMPLOYEE INFORMATION REPORT</b>	<input type="checkbox"/>
<b>FEDERAL LETTER OF APPROVAL VERIFYING A FEDERALLY APPROVED OR SANCTIONED AFFIRMATIVE ACTION PROGRAM (Dated within 1 year of the submission)</b>	<input type="checkbox"/>
<a href="#"><u>AFFIRMATIVE ACTION EMPLOYEE INFORMATION REPORT (AA-302)</u></a>	<input type="checkbox"/>