
School Bus Side Stop Signal Arm Enforcement System Approval Requirements

- [Act 159 of 2018 \(P.L. 1154, October 24, 2018\) – 75 Pa. C.S. §3345.1](#)
- [PA Code Title 67, Chapter 171a \(School bus Side Stop Arm Enforcement Systems – Temporary Regulations\)](#)

May 1, 2019



Overview

The Department of Transportation (Department) under the act of October 24, 2019 (P.L. 1154, No. 159) (75 Pa. C. S. §§3345-3345.1) allows for the use of School Bus Side Stop Signal Arm Enforcement Systems as a method to provide documented evidence for a school bus operator so that they could provide a written report of a violation of overtaking a school bus as identified in 75 Pa. C. S. §3345(a.1)(1). The use of such an automated enforcement system is to not take the place of the school bus operator's written report, but to help them with getting the necessary evidence needed to document this violation. Additionally, the program allows for a grant program be established for school entities to competitively apply for school bus side stop signal arm enforcement systems utilizing revenue and donations provided for the program.

The purpose of these guidelines is to identify the system approval process for Department as outlined in 75 Pa. C.S. §3345.1(j) Department approval and as outlined in Pennsylvania Code Title 67, Chapter 171a (School Bus Side Stop Signal Arm Enforcement Systems – Temporary Regulations. To simplify this process the Department has identified the required and suggested materials needed to obtain approval for a vendor's system.

Donations by individuals or business partners to support the School Bus Side Stop Signal Arm Enforcement Systems Grant Program may submit payments to the following:

School Bus Side Stop Signal Arm Enforcement System Grant Program (Fund # 6046100000)
400 North Street – 8th Floor
Harrisburg, PA 17120

Note: School Bus Side Stop Signal Arm Enforcement System Grant Program will be managed by the Department and an application posting in the Pennsylvania Bulletin will notify school entities of the grant program once an appropriate amount of funding is obtained to award several systems to school entities.

For more information or additional details, please review the Department's School Bus Safety website:

<https://www.penndot.gov/TravelInPA/Safety/TrafficSafetyAndDriverTopics/Pages/School-Bus-Safety.aspx>

Product Approval Requests

As identified in 75 Pa. C. S. §3345.1 a school entity (School District, Area Vocational-Technical School, Intermediate Unit, Charter School, Regional Charter School or Cyber Charter School) or contracted company that provides pupil transportation may install and operate a side stop signal arm enforcement system as described in the provisions of 75 Pa. C. S. §3345. The purpose of the application development is to have the manufacturer or vendor submit all the necessary documentation outlined within this document to the Department of Transportation so that approval can be obtained prior to utilizing the units per Pennsylvania Code Title 67, Section §171a.3(d). The following materials should be fully completed prior to the submission.

- Access PennDOT's eCAMMS system (<https://www.ecamms.pa.gov/>) to complete the eCAMMS New User Request Form (http://www.dot.state.pa.us/public/pdf/BOCM_MTD_LAB/eCAMMS/eCAMMS_New_External_User_Form.pdf) and email to ecammsupport@pa.gov.
- An instructional video is available to assist with filling out the form: http://www.dot.state.pa.us/public/pdf/BOCM_MTD_LAB/eCAMMS/npets_help.mp4
- Please select "School Bus Side Stop Signal Arm Enforcement System" as a manufacturing facility type in eCAMMS to ensure the appropriate and timely review of your product.
- The Manufacturer or Vendor seeking certification of the system must submit a request for certification to the Department of Transportation on its letterhead confirming the make and model of the system and how the system meets the minimum requirements Pennsylvania Code Title 67, Chapter 171a.3(a) (School Bus Side Stop Signal Arm Enforcement Systems – Temporary Regulations listed below:
 - (1) Include hardware with two or more camera sensors and computers capable of producing accurate Recorded Images.
 - (2) While flashing red lights are activated on a school bus, be capable of capturing Recorded Images of any motor vehicle operated in violation of 75 Pa.C.S. § 3345(a) (relating to enforcement of failure to stop for school bus with flashing red lights), with at least one Recorded Image depicting the license plate number and state of issuance of the motor vehicle.
 - (3) Automatically activate when the school bus driver or operator engages the stop signal arm and red signal lights for a school bus stop.
 - (4) Produce a Recorded Image displaying or be capable of confirming the date, time and place of an alleged violation of 75 Pa.C.S. § 3345(a).
 - (5) Include the capability to prohibit automated or user-controlled remote surveillance by means of recorded video.
 - (6) Include vandal-resistant housing covers for exterior cameras.
 - (7) Include hardware storage or cloud-based storage capable of storing Recorded Images and be capable, internally or in conjunction with removable media, of retaining Recorded Images of an alleged violation of 75 Pa.C.S. § 3345(a).
 - (8) Be capable of producing all Recorded Images to the school entity or a contracted company that provides pupil transportation no later than 24 hours after an alleged violation of 75 Pa.C.S. § 3345(a).

The certification letter provided should be attached within eCAMMS under the Other specification.

- In addition to the CS-4170 application and the certification letter specified above, the

manufacturer or vendor will be asked to provide information and attach the following documents within the eCAMMS system.

- **Product Specification** – Provide a detailed product specification of the capabilities of your School Bus Side Stop Signal Arm Enforcement System
- **Technical Data Sheet** – Provide a technical data sheet which provides the systems capabilities along with how the system works
- **Quality Control (QC) Plan** – Provide a detailed quality control plan to provide accuracy and testing requirements of the product. Additionally, all backend post processing of the data before the school entity receives the information should be documented within the QC Plan. Please include how the retention process and destroying of images as identified within the legislation is accomplished. Lastly, the manufacturer will explain how it secures all data associated with the school bus side signal arm enforcement system.
- **Use Guidelines** – Provide detailed guidelines of the use of the system and recommendations to the school entity to ensure the most efficient, accurate, and transparent way to run the system.
- **Independent Testing Data** – Provide any independent 3rd party testing of the equipment or other state DOT testing requirements for review.
- **Installation Directions and Guidelines** – Provide clear manufacturer installation and installation requirements and guidelines of the system.
- **Maintenance/Repair Direction and Guidelines** – Provide clear manufacturer maintenance and repair directions and guidelines of the system.
- **Parts List** – Provide a listing of all the associated parts to the manufactured system.
- **Performance Data and Reports** – Provide any additional data or reports of the use in other transportation jurisdictions.
- **Product Approvals by other State DOTs and/or FHWA** – Provide a listing and differentiate whether you have a statewide approval or the product is being utilized by another state DOT or local agencies.
- **Other**
 - Provide the manufacturer or vendor certification letter specified above.
 - Provide any product testing certifications, if applicable.
 - If software is part of the solution, please provide details regarding the software, how the school entity will access and retrieve the software,
 - Provide any sample agreements you may have with school entities.
 - Provide details regarding how the manufacturer or vendor will document where they have deployed to school entities and the overall number deployed.

Once all of the following materials have been compiled and submitted, the Department will review and provide further direction to obtain approval.