REGULATIONS GOVERNING PUPIL TRANSPORTATION INCLUDING MINIMUM

STANDARDS FOR SCHOOL BUSES IN VIRGINIA.

### PART I.

#### **DEFINITIONS.**

8 VAC 20-70-10. Definitions.

The following words and terms, when used in this chapter, shall have the following meanings, unless the context clearly indicates otherwise:

"Color-black" means federal standard No. 595, black.

"Color-yellow" means national school bus yellow SBMI SBMTC color standard 008.

"Nonconforming bus" means any vehicle designed to carry more than ten (10) passengers that is used to transport children to or from school or school-related activities which does not meet the federal standards, Title 49, CFR Part 571, specific to school buses. These vehicles are not approved for transporting students to and from school or school-related activities.

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"School bus" means any motor vehicle described in this chapter as "Type A1 and A2," "Type

B1 and B2," "Type C," or "Type D," which is designed and used for the transportation of pupils,

which is painted yellow with the words "School Bus" in black letters of specified size on [the] front

and rear, and which is equipped with the required warning devices [as stated in Section 46.2-100 of

the Code of Virginia].

Note: This definition includes school buses owned and operated by school boards, private

contractors, local governments, and transit systems that are used for the transportation of public

school pupils.

"School bus Type A" means a conversion or body constructed upon a van-type compact truck or

a front-section vehicle, with a gross vehicle weight rating of 10,000 pounds or less, designed for

carrying more than four persons. Range from four to 20 passenger capacity.

"Type A school bus" means a van conversion or bus constructed utilizing a cutaway front-

section vehicle with a left side driver's door. The entrance door is behind the front wheels. This

definition includes two classifications. Type A1, with a Gross Vehicle Weight Rating (GVWR) less

than or equal to 10,000 pounds; and Type A2, with a GVWR greater than 10,000 pounds.

"School bus Type B" means a conversion or body constructed and installed upon a van or

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front-section vehicle chassis, or stripped chassis, with a gross vehicle weight rating of more than

10,000 pounds, designed for carrying more than 10 persons. Part of the engine is beneath or behind

the windshield, or both, and beside the driver's seat. The entrance door is behind the front wheels.

Range from 16 to 71 passenger capacity.

"Type B school bus" means a bus with a body constructed utilizing a stripped chassis. The

entrance door is behind the front wheels. This definition includes two classifications: Type B1,

with a GVWR less than or equal to 10,000 pounds; and Type B2, with a GVWR greater than 10,000

pounds.

"School bus Type C" means a body installed upon a flat back cowl chassis with a gross vehicle

weight rating of more than 10,000 pounds, designed for carrying more than 10 persons. All of the

engine is in front of the windshield and the entrance door is behind the front wheels. Range from 34

to 64 passenger capacity.

"Type C school bus" means a bus with a body constructed utilizing a chassis with a hood and

front fender assembly. The entrance door is behind the front wheels.

"School bus Type D" means a body installed upon a chassis, with the engine mounted in the

front, midship, or rear, with a gross vehicle weight rating of more than 10,000 pounds, designed for

carrying more than 10 persons. The engine may be behind the windshield and beside the driver's

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seat; it may be at the rear of the bus behind the rear wheels, or midship between the front and rear

axles. The entrance door is ahead of the front wheels. Range from 72 to 84 passenger capacity.

"Type D school bus" means a bus with a body constructed utilizing a stripped chassis. The

entrance door is ahead of the front wheels.

"School activity vehicle" means any school bus as defined in this section with the modifications

authorized in Part VII of this chapter (8 VAC 20-70-1510 et seq.). Type A, B, C, D school buses are

recommended for transporting pupils to and from school activity events; however, a school activity

vehicle may be used solely for extra-curricular activities, when deemed necessary and appropriate by

the local school board.

"Specially equipped bus" means a school bus designed, equipped, or modified to accommodate

students with special needs.

Note: A standard or mini-size passenger van which has not been reconstructed to meet Virginia

state and federal school vehicle construction standards does not meet this definition.

"Undercoating modified test procedure" means test panels are to be prepared in accordance with

paragraph 4.6.12 of TT-C-520a of the Federal Code, incorporated by reference, with modified

procedure requiring that test be made on a 48-hour air cured film at thickness recommended by

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compound manufacturer.

PART II.

GENERAL REGULATIONS.

8 VAC 20-70-20. Transportation of children.

The greatest care shall be exercised at all times in the transportation of school children.

8 VAC 20-70-30. Safe speeds.

A school bus transporting school pupils shall be operated at a safe speed <u>as stated in Section</u>

46.2-871, Code of Virginia. not in excess of 45 miles per hour, or minimum legal speed allowable;

except, 55 miles per hour on interstate highways. However, for any such vehicle which takes on or

discharges children, the maximum speed limit shall be 35 miles per hour between the first stop and

the last stop, not including the school. The school and the designated school bus parking area shall

not be considered the first or last stop.

8 VAC 20-70-40. Seating.

The number of pupils who may ride a school bus shall be determined by the total number who

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can be seated on the seat cushion facing forward, safely seated within the seating compartment, and

shall not exceed the manufacturer's capacity. During the first 30 instructional days of the school

year standees may be permitted for short distances in the aisle back of the driver's seat. Pupils may

not be permitted to stand after the first 30 instructional days, except under unforeseen emergency

conditions as identified by the local school board.

8 VAC 20-70-50. Written employment agreement.

A written employment agreement shall be made by the school board with all regular school bus

drivers before they begin their duties. Substitute drivers shall meet the requirements prescribed for

regular bus drivers and shall be approved and paid by the local school board.

8 VAC 20-70-60. Entrance door.

The school bus driver shall open and close the entrance door and keep it securely closed while

the bus is in motion. This responsibility shall not be delegated to any other person.

8 VAC 20-70-70. Traffic warning devices.

Every school bus operated at public expense for the purpose of transporting school children

shall be equipped with traffic warning devices as stated in Sections 46.2-1090 and 46.2-1090.1 of

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the Code of Virginia. of the type prescribed in the standards and specifications of the Board of

Education. The warning lights shall indicate when the bus is about to stop, is stopped, and when it is

loading or discharging children. The warning lights shall be in operation for a distance of not less

than 100 feet before the bus stops, if the lawful speed limit is less than 35 miles per hour, and for a

distance of at least 200 feet before the bus stops if the lawful speed limit is 35 miles per hour or

more. The warning sign and crossing control arm shall be extended when, and only when, the bus is

stopped to load or discharge children.

8 VAC 20-70-80. Loading or discharging pupils.

When loading or discharging pupils on the highway, stops shall be made in the right-hand lane

and shall be made only at designated points where the bus can be clearly seen for a safe distance

from both directions. Pupils shall be picked up and discharged only at designated school bus stops

approved by the local school division except in the case of an emergency. While stopped, the driver

shall keep the school bus warning devices in operation to warn approaching traffic to stop and allow

pupils to cross the highway safely. Pupils who must cross the road shall be required to cross in front

of the bus. They shall be required to walk to a point 10 feet or more in front of the bus, stop before

reaching a position in line with the left side of the bus, and wait for a <u>hand</u> signal from the bus driver

before starting across the highway.

On dual highways divided by a physical barrier, unpaved area, or five lane highway with

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turning lane, buses shall be routed so that pupils will be picked up and discharged on the side of the

road on which they live. [See Sections 46.2-893 and 46.2-918 of the Code of Virginia.]

8 VAC 20-70-90. Safety belts.

Persons operating a school bus shall wear the appropriate safety belt system [in accordance with

manufacturer's recommendations] while the bus is in motion.

8 VAC 20-70-100. Passenger restraint belts.

Pupils riding in Type A school buses required by federal law to be equipped with passenger

restraint belts shall wear them as required by state or federal law while the bus is in motion. See

Federal Motor Vehicle Safety Standards No. 209 [and No. 210.]

8 VAC 20-70-110. Pupil rider safety instruction.

Pupil rider safety instruction shall be included in the school curriculum, including

demonstration and practices of safety procedures.

1. At the Pre-K-1 grade levels, initial safety training shall occur during the first week of school

and [with] additional training on a periodic basis during the year.

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2. Emergency exit drills shall be practiced by all pupil riders at least twice a year, the first

occurring during the first 30 instructional days and the second in the second semester. Summer

session evacuation drills should be performed as needed.

3. A copy of bus rider safety rules shall be sent to parents at the beginning of the school year.

The information shall include a request that parents or their designee accompany their young

children to and from the bus stop.

8 VAC 20-70-120. Insurance.

[Section 22.1-190, Code of Virginia states that] Every vehicle used in transporting school pupils

and personnel at public expense shall be covered by insurance that will provide financial assistance

to pupils and personnel in case of injuries or deaths resulting from an accident [as stated in Section

22.1-190 of the Code of Virginia.] Insurance is required by law in the following minimum amounts:

1. Public liability or bodily injury, including death:

a. per person, or lower limit ......\$50,000

3. Uninsured motorists coverage - equal to aforesaid limits of

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— liability

4. Medical payment - per person ...... \$ 1,000

8 VAC 20-70-130. Maintenance Inspection.

All school buses and school activity vehicles used to transport public school pupils to and from

school and school activity events shall be inspected and maintained by competent mechanics

immediately before being used in the fall and at least once every 30 operating days or every 2,500

miles traveled, [whichever occurs first]. The inspections and maintenance shall be conducted in

accordance with provisions of the "Preventive Maintenance Manual for Virginia School Buses["]

Bus Personnel and School Administrators, 1983 and recorded on the prescribed inspection forms

or in a format approved by the Department of Education. If the inspection and maintenance are not

made in a shop operated by the school board or the local governing body, the school board shall

designate one or more inspection centers to make the inspections and require a copy of the results of

the inspections to be furnished to the division superintendent.

School divisions are encouraged to employ staff to perform maintenance and inspection

functions on a timely basis consistent with these regulations.

Maintenance and service personnel shall be encouraged to attend approved workshops or

training institutes and shall receive all necessary service and maintenance publications for equipment

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serviced.

8 VAC 20-70-140. Report. Crash/Incident Reporting.

A report, on forms or on the [in a] format furnished by the Department of Education, of any

accidents crashes or incidents involving school buses, pupils, and personnel who ride school or

activity buses (including injury or death while crossing the road, waiting at bus stops, etc.) shall be

sent to the Pupil Transportation Service, Department of Education by the division superintendent or

designee at least once a month. The report shall give the apparent cause of the accident crash or

incident, [and] the extent of injuries to pupils or others. The division superintendent or designee

shall notify the Pupil Transportation Service of any school bus accident crash or incident involving

serious injuries, requiring professional medical treatment, or death within the next working day from

the date of the accident [crash or incident].

A crash i[s an accident occurs] when property damage is \$1,000 or more or when persons are

injured. An incident [is an accident occurs] when property damage is \$999 or less and there are no

injured individuals.

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**8 VAC 20-70-150. Route schedule.** 

All school buses in operation shall be carefully scheduled on routes to maximize safety and

efficiency to schools. The schedule shall show the time the bus starts in the morning, the time it

leaves each point at which pupils are taken on [picked up], and the time of arrival at school. One

copy of such schedule shall be kept in the bus and one copy shall be kept in the office of the division

superintendent or designee. of schools.

8 VAC 20-70-160. Review of routes.

School bus routes, school sites, and safety of pupils at <u>designated school</u> bus stops shall be

reviewed at least once each year. Bus routes shall be reviewed for safety hazards, fuel conservation,

and to assure maximum use of buses. Local school administrators shall evaluate the safety of pupils

at bus stops periodically and shall at the request of the local school board report the results annually

to the school board. Hazardous or unusual situations, to include railway crossings, shall be marked

on the route sheet and made available to drivers and substitutes.

A written vehicular and pedestrian traffic control plan for each existing school site shall be

reviewed annually for safety hazards. All new school site plans shall include provisions which

promote vehicular and pedestrian safety.

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8 VAC 20-70-170. Railway crossings.

School buses shall stop, as required by law, at railway grade crossings. The 4-way hazard lights

shall be activated when approaching the railway grade crossing and deactivated before crossing the

track. The bus driver shall turn off all noisy equipment, open the entrance door of the bus and

determine when it is safe for the vehicle to cross the railroad tracks. The entrance door shall be

closed when the bus is in motion. No stop need be made at any grade crossing where traffic is

directed by a police officer or a green traffic-control signal [as stated in Section 46.2-886 of the

Code of Virginia].

**8 VAC 20-70-180. Driver reports.** 

School boards shall require that a report on the number of pupils transported and miles traveled

be made by all school bus drivers to principals or other designated school officials.

8 VAC 20-70-190. Policies.

Local school boards shall adopt policies, consistent with provisions of Virginia School Laws the

Code of Virginia, before establishing a practice of collecting transportation fees from pupils or

receiving contributions from other sources for activities sponsored by schools under their authority.

No pupil whose parent or guardian is financially unable to pay the pro rata cost of the trip may be

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denied the opportunity to participate. See 3 22.1-176 of the Code of Virginia.

8 VAC 20-70-200. Identification and lights covering.

The lettered identification and traffic warning lights on the front and rear of school buses shall

be covered with opaque detachable material when they are used for purposes other than to transport

pupils on regular routes to and from school, or on special trips to participate in contests of various

kinds, and for supplementary education purposes as required by Section 22.1-183 of the Code of

Virginia. This does not apply when the bus is being used to transport elderly or mentally or

physically handicapped persons.

8 VAC 20-70-210. Advertising material.

The use of posters, stickers, or advertising material of any kind is prohibited in or on school

buses [unless permitted by state law.]

8 VAC 20-70-220. Passage restriction.

No object shall be placed in the on any bus carrying passengers that will restrict the passage

access to the entrance or emergency doors any exit.

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8 VAC 20-70-230. Required materials.

All vehicles used to transport students to and from school or school-related activities shall carry

reflective triangles, first aid kit, body fluid clean-up kit and fire extinguisher. (See 8 VAC

<del>20-70-1010</del>.)

8 VAC 20-70-240. Funding for Pupil Transportation.

Funding for pupil transportation shall be pursuant to the provisions of the appropriation act.

PART III.

DISTRIBUTION OF PUPIL TRANSPORTATION FUNDS.

8 VAC 20-70-240. Regular approved school bus fund.

The regular approved school bus fund shall be allocated for pupils transported on approved

school buses to the extent that these provisions are consistent with the annual Appropriation Act:

1. School divisions shall be eligible for reimbursement for transportation of pupils in

kindergarten through grade 12 and for students with disabilities ages two to 21 as defined in 3

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22.1-213 of the Code of Virginia, paragraph 1.

2. No reimbursement shall be made for pupils transported on any bus or for any bus which does

not meet the provisions of the annual inspections required by the Department of State Police, the

fleet assessment by the Department of Education and regulations of the Board of Education.

NOTE: Any required reduction in the fund will be based on a pro rata share of the total

"Regular Approved Bus Fund" allocation.

3. No reimbursement shall be made for pupils or buses unless the pupils are transported and the

bus is used both from home to school and from school to home.

4. No reimbursement shall be made from this fund for pupils or buses if transportation

assistance is received from other state or federal sources. Fares/fees shall not be collected from the

pupil/parent, except as provided for in >> 22.1-6 and 22.1-176 of the Code of Virginia, and Board of

**Education Regulations.** 

5. The computation for reimbursement shall be based on the number of pupils transported in

average daily attendance (average number transported daily) and the prevailing number of buses for

a prior years.

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6. The computation for reimbursement of school divisions during their first year of school bus

operation shall be based on the number of pupils and buses for the current year.

7. Before final reimbursement for the transportation of pupils to and from public schools is

made to a school division, a report shall be submitted by the division superintendent to the

Superintendent of Public Instruction certifying the number of pupils transported, the correct net

operating cost of transporting pupils (actual expenditure, less gas tax refunds), and the average daily

mileage of each bus meeting the standards and specifications of the Board of Education used in

transporting pupils for the preceding school year. Such report shall include information covering the

type of bus, make and model of the body and chassis, and the number of bus inspections.

Information for the review of pupil transportation programs shall be furnished annually on forms

provided by the Department of Education. Records of vehicle inspections and maintenance shall be

presented for review at the time of the annual fleet assessment conducted by the Department of

Education or at other times necessary to ensure compliance with 8 VAC 20-70-130 and 8 VAC

20-70-380 of this chapter.

8. Regular fund reimbursement will be included in basic aid payment.

9. For purposes of costing the standards of quality, the Board of Education assumes a 12 year

school bus replacement cycle.

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8 VAC 20-70-250. Fund for Exclusive Transportation of Students with Disabilities on

approved school buses.

The Fund for Exclusive Transportation of Students with Disabilities shall be allocated on the

following bases to the extent that these provisions are consistent with the annual Appropriations Act:

1. All provisions in 8 VAC 20-70-240 "Regular Approved Bus Fund" shall apply to the

computation of the reimbursement from this fund;

2. Reimbursement shall be allowed only for transportation of students with disabilities who have

been classified as such in the Rehabilitation Act of 1973, > 504, the Individual with Disabilities

Education Act of 1975, the Code of Virginia, and regulations of the Board of Education, and for

those pupils who have not been identified but whose handicapping conditions dictate exclusive

transportation;

3. No reimbursement authorized by this article shall be made when both nonhandicapped pupils

and students with disabilities are transported on the same trip;

4. Exclusive fund reimbursement will be included in basic aid payment; and

5. For purposes of costing the standards of quality, the Board of Education assumes a 12-year

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school bus replacement cycle.

8 VAC 20-70-260. Special transit fund.

The special transit fund shall be allocated for pupils transported on public transit systems.

1. The amount of reimbursement shall be based on the number of pupils riding public transit

buses multiplied by the comparable prevailing regular program per pupil cost consistent with the

annual Appropriations Act.

2. Transit funds shall be available to school divisions for eligible pupils transported in transit

buses through contracts with public transit systems listed and recognized as public transit systems by

the Virginia Department of Transportation. School divisions will not be eligible to include pupils

transported in vehicles commonly referred to or licensed as passenger cars, cabs, vans, taxis, school

activity vehicles, and school buses.

3. The local school board shall make provisions when such transportation is provided that each

vehicle be operated and maintained so as to ensure safe service to the pupils. Insurance shall be

provided by the owner of such vehicles in amount not less than those provided for in > 22.1-190 of

the Code of Virginia. Evidence of such insurance shall be on file in the school board office.

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4. Reimbursement shall be available for pupils who are transported to and from public schools

for the regular school session and will not be available for special trips and extracurricular activities.

5. In no case, shall reimbursement exceed local school board expenditures for transporting such

pupils.

6. Transit fund reimbursement will be included in basic aid payment.

8 VAC 20-70-270. Special Arrangements Fund for Transportation of Students with

Disabilities.

The special arrangements fund for transportation of students with disabilities shall be allocated

on the following bases to the extent that these provisions are consistent with the annual

**Appropriations Act:** 

1. Funds shall be available to school divisions for eligible students with disabilities, ages two to

21 inclusive, transported by contract with approved private schools, taxicabs, airlines,

intercity/interstate passenger buses, school board-owned cars, or for the transportation by parents in

lieu of the school board providing transportation services.

2. No reimbursement shall be allocated for pupils transported on vehicles which are not in

compliance with all applicable federal school vehicle regulations.

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3. Data on attendance, actual cost, and type of vehicles related to the special arrangement

transportation to public, approved private, and regional schools shall be submitted each semester on

forms provided by the Department of Education.

4. Pupils eligible for or claimed in reimbursement from any other transportation fund, state or

federal, shall not be eligible for reimbursement from the Special Arrangements Fund.

5. Special Arrangements Fund reimbursement will be included in basic aid payment.

## PART IV. III.

# REQUIREMENTS FOR SCHOOL BUS DRIVERS.

8 VAC 20-70-280. Requirements for school bus drivers both for employment and continued

employment.

Sections 46.2-339, 340, and Section 22.1-178, Code of Virginia requires drivers of school and

activity buses shall to:

1. Have a physical examination of a scope prescribed by the Board of Education with the

advice of the Medical Society of Virginia and furnish[ed on] a form prescribed by the Board of

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Education showing the results of such examination.

a. No person shall drive a school bus unless that person is physically qualified to do so and has

submitted a School Bus Driver's Application For Physician's Certificate signed by the

applicant and the doctor or a licensed nurse practitioner for the applicable employment

period.

b. A person is physically qualified to drive a school bus if the individual: The physical form

describes the basic physical qualifications for school bus drivers; however, the examining

physician or licensed nurse practitioner shall make the final determination of the

individual's physical capacity to operate a school bus based upon their assessment of the

individual's overall physical condition.

(1). Has no loss of a foot, a leg, a hand, or an arm which interferes with the ability to control

and safely drive a school bus without reasonable accommodations;

(2). Has no impairment of the use of a foot, a leg, a hand, fingers, or an arm, and no other

structural defect or limitation likely to interfere with the ability to control and safely drive a

school bus without reasonable accommodations;

(3). Has no known medical history or clinical diagnosis of diabetes mellitus currently

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requiring insulin for control likely to interfere with the ability to control and safely drive a

school bus without reasonable accommodations;

(4). Has no current clinical diagnosis of myocardial infarction, angina pectoris, coronary

insufficiency, thrombosis, or any other cardiovascular disease of a variety known to be

accompanied by syncope, dyspnea, collapse, or congestive cardiac failure;

(5). Has no known medical history or clinical diagnosis of a respiratory dysfunction likely to

interfere with the ability to control and drive a school bus safely without reasonable

accommodations;

(6). Has no known current clinical diagnosis of high blood pressure likely to interfere with the

ability to operate a school bus safely without reasonable accommodations;

(7). Has no known medical history or clinical diagnosis of rheumatic, arthritic, orthopedic,

muscular, neuromuscular, or vascular disease which would interfere with the ability to control

and operate a school bus safely without reasonable accommodations;

(8). Has no known medical history or clinical diagnosis of epilepsy or any other condition

which is likely to cause loss of consciousness or any loss of ability to control a school bus

without reasonable accommodations:

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(9). Has no known mental, nervous, organic, or functional disease or psychiatric disorder

likely to interfere with the ability to drive a school bus safely without reasonable

accommodations;

(10). Has both distant and near visual acuity of at least 20/40 (Snellen) in each eye with or

without corrective lenses, and field of vision of at least 70 degrees in the horizontal meridian in

each eye, and the ability to recognize the colors of traffic signals and devices showing standard

red, green, and amber;

(11). First perceives a forced-whispered voice in the better ear at not less than five feet with or

without the use of a hearing aid or, if tested by use of an audiometric device, does not have an

average hearing loss in the better ear greater than 40 decibels at 500 Hz, 1,000 Hz, and 2,000

Hz with or without a hearing aid when the audiometric device is calibrated to American

National Standard (formerly ASA Standard) Z24.5-1951; and

(12). Does not use an amphetamine, narcotic, or any habit forming drug without appropriate

physician supervision.

2. Furnish a statement or copy of records from the Department of Motor Vehicles showing that

the person, within the preceding five years, has not been convicted of a charge of driving under the

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influence of intoxicating liquors or drugs, convicted of a charge of refusing to take a blood or breath

test, convicted of a felony, or assigned to any alcohol safety action program or driver alcohol

rehabilitation program pursuant to 3 18.2-271.1, of the Code of Virginia or, within the preceding 12

months, has not been convicted of two or more moving traffic violations or has not been required to

attend a driver improvement clinic by the Commissioner of the Department of Motor Vehicles

pursuant to 3 46.2-498, of the Code of Virginia.

3. Furnish a statement signed by two reputable residents persons who reside in of the school

division or in the applicant's community that the person is of good moral character.

4. Exhibit a license showing the person has successfully undertaken the examination prescribed

by  $\ni$  46.2-339, of the Code of Virginia.

5. Be at least 18 years old

6. Submit to testing for alcohol and controlled substances which is in compliance with the

Omnibus Transportation Employee Testing Act of 1991 (Public Law 102-143, Title V) and the

amendments [as amended] and is in compliance with 49 CFR, parts 40 and 382.

8 VAC 20-70-290. First aid course.

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Any school board may require successful completion of the American Red Cross first aid course

or its equivalent as a condition to employment to operate a school bus transporting pupils as required

by Section 22.1-178, Code of Virginia.

8 VAC 20-70-300. Required documents.

The documents required pursuant to 8 VAC 20-70-280 A and B shall be furnished annually

prior to the anniversary date of the employment to operate a school bus.

8 VAC 20-70-310. Filing.

The documents required pursuant to this section shall be filed with, and made a part of, the

records of the school board employing such person as a school bus operator.

8 VAC 20-70-320. Forms for applicants.

The Department of Education shall furnish to the division superintendents the necessary forms

for applicants to use to provide the information required by this section. Insofar as practicable, such

forms shall be designed to limit paperwork, avoid the possibility of mistakes, and furnish all parties

involved with a complete and accurate record of the information required.

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8 VAC 20-70-330. Health certificate.

As a condition to employment, every school and activity bus driver shall submit a certificate

signed by a licensed physician stating that the employee appears free of communicable tuberculosis.

The school board may require the submission of such certificates annually, or at such intervals as it

deems appropriate, as a condition to continued employment.

8 VAC 20-70-340. Highway driving.

[Section 46.2-339, Code of Virginia requires that] No person shall drive a school or activity bus

upon a highway in the Commonwealth unless such person has had a reasonable amount of

experience in driving motor vehicles, and shall have passed a special examination indicating the

ability to operate a school bus without endangering the safety of pupil passengers and persons using

the highway [as stated in Section 46.2-339 of the Code of Virginia]. To prepare for the examination

required by this section, any person holding a valid operator's license and Commercial Driver's

License (CDL) Instruction Permit issued under the provisions of 346.2-325, of the Code of Virginia,

may operate, under the direct supervision of a person holding a valid school bus license

endorsement, a school bus which contains no pupil passengers. The Department of Motor Vehicles

is required to adopt such rules and regulations as may be necessary to provide for the examination of

persons desiring to qualify to drive such buses in this Commonwealth and for the granting of permits

to qualified applicants.

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8 VAC 20-70-350. Training.

No person shall operate a school or activity bus transporting pupils unless the person shall have:

1. Received classroom, demonstration, and behind-the-wheel instruction in accordance with the

minimum provisions of the "Virginia School Bus Driver Training Curriculum Guide." a program

developed by the Department of Education, pursuant to Section 22.1-181, Code of Virginia.

specifications developed by the Department of Education.

2. [Completed a minimum of 20 classroom hours and 20 hours of behind-the-wheel training. A

minimum of 10 of the 20 hours of behind the wheel time shall involve the operation of a bus with

pupils on board while under the direct supervision of a designated bus driver trainer. Drivers of

Type D buses will be required to complete eight (8) additional hours of training behind-the-wheel.

Every driver who transports students with disabilities shall receive an additional six hours of

appropriate instruction, training and demonstration from an approved instructor using Department of

Education approved curriculum.

[2. Completed a minimum of 24 classroom hours and 24 hours of behind-the-wheel training. A

minimum of 10 hours of the 24 hours of behind-the-wheel shall involve the operation of a bus with

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pupils on board while under the direct supervision of a designated bus driver trainer. All drivers

shall receive training in the operation of a Type D bus and transportation of students with special

needs.

The superintendent or his designee shall maintain a record showing that the applicant has

completed the training and has been approved to operate a school or activity bus.

8 VAC 20-70-360. In-service training.

Prior to the beginning of each school year, school divisions shall determine the amount of

training and a schedule that is needed for experienced drivers and new drivers.]

[In-service training (at least two hours before opening of schools and at least two hours during

the second half of the school year) devoted to improving the skills, attitudes, and knowledge

including orientation to maximize benefits of using safety programs and safety components shall be

provided to all school or activity bus drivers.]

**8 VAC 20-70-370. Supervision.** 

The drivers of school and activity buses shall be under the general direction and control of the

superintendent or designee and school board or the supervisor of transportation, and shall also be

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accountable to the principal of the school to which transportation is provided.

8 VAC 20-70-380. Pre-trip safety inspection.

The drivers of school and activity buses shall perform a [daily] pre-trip safety inspection of the

vehicle [immediately] prior to transporting children. The items checked and recorded shall be at least

equal to the pre-trip inspection procedure as prescribed by the Department of Education.

8 VAC 20-70-390. Misconduct reports.

The drivers of school and activity buses shall report to the principal the misconduct of pupils on

the school bus or at waiting stations or stops on the way to or from school and shall be guided by the

principal's advice and direction, subject to the regulations of the school board. When it becomes

necessary for the driver to correct pupils, the driver shall stop at the nearest and safest place and

restore order before proceeding. In no case shall a driver put a pupil off the bus between the home

and school as a disciplinary measure.

8 VAC 20-70-400. Performance Evaluation.

The performance of Each school and activity bus driver shall be evaluated by the transportation

director or designee at least once each year. The results of the evaluation shall be discussed with the

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driver and included in the driver's personnel file.

8 VAC 20-70-410. Emergency equipment.

The driver of activity or extracurricular trip buses shall advise the pupils and/or sponsors of the

location of the required emergency equipment and exits prior to the beginning of any such trip.

8 VAC 20-70-420. Instructor course certificate.

Local school bus driver training instructors shall hold a certificate for completion of an

instructor course conducted or sponsored approved by the Department of Education and shall attend

a recertification course every five years.

8 VAC 20-70-430. Driver data.

The names and driver license numbers of persons operating school and activity buses used to

transport pupils shall be submitted to the Department of Motor Vehicles annually as required by

Section 46.2-340, Code of Virginia. These data for each new driver employed during the school

year shall be submitted by the 10th of each month.

8 VAC 20-70-440. Responsibility for compliance.

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The responsibility for compliance with these school bus and activity vehicle specifications

issued by the Department of Education rests with dealers and manufacturers. If any dealer or

manufacturer sells school buses or school activity vehicles which do not conform to any or all of

these specifications issued by the Department of Education, a general notice will be sent to all

school divisions advising that equipment supplied by such dealer or manufacturer will be

disapproved for school transportation until further notice. A copy of the notice will be sent to the

dealer or manufacturer and will remain in effect until full compliance by the dealer or manufacturer

is assured.

Dealers and manufacturers shall be given at least 30 days notice of any changes in the

specifications.

8 VAC 20-70-450. Minimum standards.

Minimum standards are applicable to all school buses and school activity vehicles, new or used,

procured by purchase, lease or operational contract from another person or entity.

PART ¥.IV.

GENERAL REQUIREMENTS MINIMUM STANDARDS FOR SCHOOL BUSES IN

VIRGINIA.

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#### ARTICLE 1.

### **GENERAL REQUIREMENTS.**

8 VAC 20-70-460. Specifications.

It is the intent of the Board of Education to accommodate new equipment and technology that will better facilitate the safe and efficient transportation of students. When a new technology, piece of equipment, or component is desired to be applied to the school bus, it must have the approval of Virginia Department of Education and must meet the following criteria:

- A. The technology, equipment, or component shall not compromise the effectiveness or integrity of any major safety system.
- B. The technology, equipment, or component shall not diminish the safety of the interior of the bus.
- C. The technology, equipment, or component shall not create additional risk to students who are boarding or exiting the bus or are in or near the school bus loading zone.
- D. The technology, equipment, or component shall not require undue additional activity and/or responsibility for the driver.
- E. The technology, equipment, or component shall generally increase efficiency and/or safety of the bus, generally provide for a safer or more pleasant experience for the occupants and pedestrians in the vicinity of the bus, or shall generally assist the driver and make his/her

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many tasks easier to perform.

Buses and school activity vehicles must conform to the specifications relative to construction

and design effective on the date of procurement. Any variation from the specifications, in the form

of additional equipment or changes in style of equipment, without prior approval of the Pupil

Transportation Service, Department of Education, is prohibited. The Department of Education shall

issue [guidelines on the] specifications and standards for public school buses to reflect desired

technology or safety improvements for the then current model year.

8 VAC 20-70-470. Adjustments.

The Superintendent of Pupil Public Instruction is authorized to make such adjustments from

time to time in technical specifications as are deemed necessary in the interest of safety and

efficiency in school bus operation. This includes the issuance of chassis specifications by size, type

and model year. Authority is also granted for conducting investigations and field tests of certain

pertinent vehicle components.

8 VAC 20-70-480. Bus identification.

All publicly owned, part publicly owned, or contract school buses, transporting pupils to and

from public school, shall be painted a uniform color, national school bus yellow, and shall be

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identified and equipped as outlined in the standards and specifications. A yellow school bus may

have a white roof provided the vehicle is painted in accordance with specifications.

8 VAC 20-70-490. Purchase.

The responsibility for purchasing school buses and school activity vehicles which meet state and

federal requirements rests with division superintendents and local school boards.

A schedule for the replacement of buses on a continuing basis shall be developed and

implemented by each school division.

8 VAC 20-70-500. Sale of surplus school buses.

A. Before a surplus school bus is sold or released for nonschool transportation purposes, the bus

shall have the traffic warning signal system and crossing control arm removed and all school bus

lettering shall be covered by an opaque paint. A written notice shall be attached to the Certificate of

Title stating that the vehicle does not meet the requirements of  $\ni \ni 46.2-100$  and 46.2-1089 and that

its operation on the highway would be in violation of 3 46.2-917, of the Code of Virginia.

B. In the event that the bus is sold to a private school or a licensed dealer, the written notice

shall contain a reminder that the bus shall be painted a different color, and shall have the bus signal

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systems and lettering removed before release for nonschool transportation purposes.

8 VAC 20-70-510. Vehicles powered by alternative fuels.

A. The Board of Education will continue to promote the use of alternative fuels for school

buses. Any vehicle powered by alternative fuels will be subject to inspection and approval by the

Virginia Department of Education.

B. Local school divisions, in consultation with the Department of Education, may purchase and

use school buses using alternative fuels as covered in 3 22.1-177, of the Code of Virginia)

C. Installation of alternative fuel tanks and fuel systems shall comply with all applicable Federal

Motor Vehicles Safety Standards (FMVSS) 301, 49 CFR ∋ 571, and all applicable fire codes.

D. A sign with black letters on clear or school bus yellow background, indicating the type of

alternative fuel being used, may be placed on the side of the bus near the entrance door. No sign

shall be more than 4-3/4 inches long or more than 3-1/4 inches high.

8 VAC 20-70-520. Road speed control.

School divisions may, at their discretion, set road speed control to a maximum of 55 miles per

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hour.

PART <del>VII.</del> <u>V.</u>

**ACTIVITY VEHICLES.** 

8 VAC 20-70-<del>1510.</del> <u>525</u>. Regulations and standards.

Activity vehicles owned or operated under contract by or for the school board, which are used

solely to transport pupils to and from school activity events, shall comply with all applicable

regulations and standards prescribed for school buses except as noted in this article.

1. Exceptions, general regulations.

a. An activity vehicle transporting school pupils shall be operated at a safe, legal speed

not in excess of 55 miles per hour.

b. No standees shall be permitted.

c. The eight-inch school bus lettered identification and traffic warning devices shall be

removed by the local school division as required by 33 46.2-100 and 46.2-1090 of the

Code of Virginia. The name of the school division or individual school shall be

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placed on both sides of the vehicle.

- d. Stops for the purpose of loading or discharging pupils on the travel portion of the highway shall not be permitted.
- 2. Exceptions, minimum standards for school buses in Virginia.
  - a. School activity vehicles shall not be painted national school bus yellow.
  - b. Other type seats and increased spacing may be used provided all provisions of FMVSS 222, 49 CFR → 571.222, are met.

#### ARTICLE 2.

#### THE BUS CHASSIS.

## 8 VAC 20-70-530. Air cleaner.

A. The engine intake air cleaner system shall be furnished and properly installed by the chassis manufacturer to meet the engine manufacturer's specifications.

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B. An air cleaner restriction indicator shall be furnished and installed by chassis manufacturer.

8 VAC 20-70-540. Alternator.

A. All Type A and B buses up to 15,000 pounds gross vehicle weight rating (GVWR) shall have

a minimum 90 ampere alternator.

B. Type B buses over 15,000 pounds GVWR and all Type C and D buses shall be equipped with

a heavy duty truck or bus type alternator meeting Society of Automotive Engineers (SAE) J-180;

having a minimum output rating of 100 amperes, alternator shall be capable of producing a

minimum of 50% of its maximum rated output at the engine manufacturer's recommended idle

speed.

C. All buses equipped with an electrical power lift shall have an alternator capable of producing

a minimum 75 amperes at engine manufacturer's recommended idle speed.

D. Belt drive shall be capable of handling the rated capacity of the alternator with no

detrimental effect on other driven components. Direct-drive alternator is permissible in lieu of belt

drive.

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8 VAC 20-70-550. Axles.

A. The front axle and rear differential, including suspension assemblies, shall have a gross axle

weight rating at ground at least equal to that portion of the load as would be imposed by the chassis

manufacturer's maximum gross vehicle weight rating.

B. Rear axle shall be single speed, full-floating type.

8 VAC 20-70-560. Battery.

A. No bus shall be equipped with a battery of less than 700 amperes cold cranking current at O0

F with 170 minutes reserve capacity at 800 F.

B. Battery shall be mounted in the engine compartment or temporarily mounted to chassis.

When battery is temporarily mounted to chassis by chassis manufacturer, the chassis manufacturer

shall furnish and install one-piece cables of sufficient length to allow battery to be mounted in

slide out tray in body skirt on left side of bus. Cable shall be at least one gauge color coded

(positive-red, negative-black). Annual chassis requirements will specify battery location for different

types of chassis.

8 VAC 20-70-570, Brakes.

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A. Four-wheel brakes, adequate at all times to control bus when fully loaded, shall be provided

in accordance with Federal Motor Vehicle Safety Standards.

B. Service brakes shall meet FMVSS 105, 49 CFR 571.105, for hydraulic brakes, and FMVSS

121, 49 CFR 571.121, for air brakes. Brake lining shall not contain asbestos.

C. Chassis shall be equipped with auxiliary brakes capable of holding vehicle on any grade on

which it is operated under any conditions of loading on a surface free from snow or ice. Operating

controls of such auxiliary brakes shall be independent of operating controls of service brakes.

D. Buses having full compressed air systems shall be equipped with:

1. A minimum 12 cubic feet per minute engine oil fed air compressor.

2. Air supply for air compressor shall be taken from the clean side of engine air cleaner system.

3. An air dryer with automatic purge and drain cycle and a heating element.

E. Buses using hydraulic brakes shall have power assist brakes. Hydraulic line pressure shall not

exceed recommendation of chassis or brake manufacturer.

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(See Diagram 1.)

8 VAC 20-70-580. Bumper, front.

A. Front bumper shall be heavy duty, channel steel at least eight inches in height with 3/16-

inch thickness, painted black, and shall be furnished by chassis manufacturer as part of chassis.

B. Front bumper shall extend to outer edges of fenders at bumper top line (to assure maximum

fender protection) and be of sufficient strength to permit pushing, lifting or towing without

permanent distortion to bumper, chassis, or body.

C. Exception Type A vehicles.

Bumper shall be manufacturer's standard painted black.

D. Exception Type D vehicles. Same as above, except that front bumper shall be furnished by

body manufacturer.

8 VAC 20-70-590, Clutch.

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Torque capacity shall be equal to or greater than the engine torque output. Clutch facing shall be nonasbestos.

## 8 VAC 20-70-600. Color.

A. Chassis, including wheels, and front bumper shall be black.

B. Hood, cowl, and fenders shall be national school bus yellow.

C. Grill shall be national school bus yellow, if painted; otherwise, it shall be chrome or anodized aluminum.

D. All paint shall meet the lead-free standards.

#### 8 VAC 20-70-610. Drive shaft.

Drive shaft shall be protected by metal guard or guards to prevent it from whipping through floor or dropping to ground if broken.

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8 VAC 20-70-620. Electrical system.

A. Battery - see 8 VAC 20-70-560.

B. Alternator - see 8 VAC 20-70-540.

C. Lights and signals - see 8 VAC 20-70-730.

D. Wiring - see 8 VAC 20-70-1350.

E. Power terminal. Chassis manufacturer shall provide an electric power source terminal for bus body power connection. Wiring from the power source in wiring terminal shall have a current

carrying capacity of 125 amperes continuous (minimum 4 gauge wire).

This conductor shall be of continuous size uninterrupted by fusible links, fuses, or circuit

breakers. The terminal shall be of the single post-type, minimum of one-fourth inch (1/4") stud and

located on the fire wall above the toeboard on the left hand side, subject to approval of the pupil

transportation service, Department of Education.

F. Light terminal. The chassis manufacturer shall provide a wire terminal adjacent to or in the

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under dash area of the left side panel accessible to the body company for connection of rear brake

lights, tail lights, turn signal lights, and back-up lights. A terminal strip consisting of individual

terminals with each terminal properly identified shall be provided to meet this requirement.

G. Fuse. All fuses shall be located in fuse block and properly identified for the circuit protected.

H. Each chassis circuit shall be color coded and a diagram of the circuits shall be included with

the chassis.

I. Wiring harness. All conductors from the alternator to the battery shall be continuous in length.

The conductors shall be sized to provide at least a 25% greater current carrying capacity than the

design output of the alternator (minimum 4 gauge wire). The conductor between the alternator and

the battery shall be routed in a manner that will provide the least distance between points of

termination. A separate ground conductor from alternator to engine shall be provided (minimum

four-gauge).

J. Safety switch shall be installed on the clutch linkage and prohibit engine from being started

unless clutch pedal is depressed.

8 VAC 20-70-630. Engine.

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The engine shall be of the internal-combustion, four-stroke cycle type, having not less than six

cylinders. Thermostats with not less than 1750 F - 1950 F rating shall be provided.

8 VAC 20-70-640. Exhaust system.

A. Exhaust pipe, muffler, and tail pipe shall be outside bus body attached to chassis.

B. Tail pipe shall be constructed of seamless or electrically welded tubing of 16-gauge steel or

equivalent, and shall extend at least five inches beyond chassis frame. (See 8 VAC 20-70-1260)

C. Size of tail pipe shall not be reduced after it leaves muffler.

D. Exhaust system shall be properly insulated from fuel tank and tank connections by securely

attached metal shield at any point where it is 12 inches or less from tank or tank connections.

E. Muffler shall be constructed of corrosion resistant material.

F. Exception Type A and B Vehicles less than 15,000 pounds (GVWR).

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Tail pipe may exit behind rear wheel.

8 VAC 20-70-650. Fenders, front.

A. Total spread of outer edges of front fenders, measured at fender line, shall exceed total

spread of front tires when front wheels are in straight-ahead position.

B. Front fenders shall be properly braced and free from any body attachment.

C. Chassis sheet metal shall not extend beyond rear face of cowl.

8 VAC 20-70-660. Frame.

A. Frame shall be of such design as to correspond at least to standard practice for trucks of same

general load characteristics which are used for severe service.

B. When frame side members are used, they shall be of one-piece construction. If frame side

members are extended, such extension shall be designed and furnished by chassis manufacturer with

a guarantee, and installation shall be made by either chassis or body manufacturer and guaranteed by

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company making installation. Extensions of frame lengths are permissible only when such

alterations are behind rear hanger of rear spring, and shall not be for purpose of extending wheel

base.

C. Holes in top or bottom flanges of frame side rails shall not be permitted except as provided in

original chassis frame. There shall be no welding to frame side rails except by chassis or body

manufacturer.

8 VAC 20-70-670. Frame length.

Frame length - (See 8 VAC 20-70-890)

8 VAC 20-70-680. Fuel tank.

A. Fuel tank equipped with protective cage to meet FMVSS 301, 49 CFR > 571.301, shall have

minimum fill capacity of 30 gallons, with a minimum draw of 25 gallons, and be mounted directly

on right side of chassis frame, filled and vented entirely outside body. All fuel tanks shall be vented

from the top of the tanks.

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B. Fuel filter with replaceable element shall be installed between fuel tank and engine.

C. No portion of the fuel system which is located to the rear of the engine compartment, except

the filler tube, shall extend above top of chassis frame rail.

D. If tank sizes other than 30 gallons are supplied, location of front of tank and filler spout must

remain as specified by the School Bus Manufacturer's Institute Design Objectives, January 1985

edition, and have a minimum draw of 83% of fill capacity.

E. Measurements shown below are for guidance of chassis manufacturers and serve only to

prevent need for replacement of original tank. (Inspectors concerned with state or local approval of

vehicle need not consider them unless tank does not fit.)

1. Tank or cage shall not extend in height above side member of chassis.

2. Distance from center line of chassis to outside of tank cage shall not be more than 44 inches.

3. Bottom of tank cage shall not be more than 190 inches below top of frame.

4. Center of fillpipe cap shall be one inch below top of frame with plus or minus tolerance of

1/4 inch permitted.

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F. Exceptions.

1. For Type A vehicles, the fuel tank shall be manufacturer's standard, mounted, filled, and

vented outside of body.

2. For Type B of body on chassis or vehicles constructed with a power lift unit, the fuel tank

may, due to space limitation, be mounted behind rear wheels with fillpipe on right or left side of

body and have capacity of less than 30 gallons.

3. For Type D vehicles, the fuel tank may be mounted between frame rails with fuel filler pipe

extending to right side of body between frame rails and body floor. Bottom of cage shall not extend

below the level of the front axle.

8 VAC 20-70-690. Governor.

A. An approved engine governor set by engine manufacturer is required on vehicles equipped

with gasoline engines.

B. An approved road speed control shall be required on all buses and may be set at a maximum

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speed of 55 mph.

8 VAC 20-70-700. Heating system, provision for.

The chassis engine shall have plugged openings for the purpose of supplying hot water for the

bus heating system. The opening shall be suitable for attaching 3/4-inch pipe thread/hose connector.

The engine shall be capable of supplying water having a temperature of at least 1700 F at a flow rate

of 50 pounds per minute at the return end of 30 feet of one inch inside diameter automotive hot

water heater hose. (SBMI Standards No. 001-Standard Code for Testing and Rating Automotive Bus

Hot Water Heating and Ventilating Equipment.)

8 VAC 20-70-710. Horn.

Bus shall be equipped with dual horns of standard make which meet requirements of Federal

Motor Vehicle Safety Standards, 49 CFR 571.

8 VAC 20-70-720. Instrument and instrument panel.

Board of Education Regulations Governing Pupil Transportation 8 VAC 20-70- 10 et seq. Page 52 of 136 A. Chassis shall be equipped with following instruments and gauges: 1. Speedometer which will show speed; 2. Odometer which will show accrued mileage, including tenths of miles; 3. Ammeter or voltmeter with graduated scale; 4. Oil pressure gauge; 5. Water temperature gauge; 6. Fuel gauge; 7. Upper-beam headlamp indicator; and 8. Tachometer.

B. All instruments or gauges shall be mounted on instrument panel in such manner that each is

clearly visible to driver in normal seated position. Lights in lieu of gauges are not acceptable.

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C. Exceptions. On all Type A vehicles, both the ammeter or voltmeter and its wiring are to be

compatible with generating capacity.

8 VAC 20-70-730. Lights and signals.

A. Each chassis shall be equipped with not less than two sealed beam headlights - beam

controlled, and stop and tail lights, and two front turn signal lamps mounted on front fenders.

B. Lights shall be protected by fuse or circuit breakers.

C. Self-canceling directional signal switch shall be installed by the chassis manufacturer. The

directional signals shall activate only when ignition is in "on" position.

8 VAC 20-70-740. Oil filter.

Oil filter of replaceable element type shall be provided and shall have oil capacity of at least one

quart.

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8 VAC 20-70-750. Openings.

All openings in floorboard or firewall between chassis and passenger-carrying compartment,

such as for gearshift lever and auxiliary brake lever, shall be sealed unless altered by body

manufacturer. (See 8 VAC 20-70-960)

8 VAC 20-70-760. Overall length.

Annual body specifications shall specify overall length.

8 VAC 20-70-770. Passenger load.

Gross vehicle weight (i.e., wet weight, plus body weight, plus driver's weight of 150 pounds,

plus weight of maximum seated pupil load based on not less than 120 pounds per pupil) shall not

exceed maximum gross vehicle weight rating as established by manufacturer.

8 VAC 20-70-780. Retarder system (optional).

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Retarder system, if used, shall maintain the speed of the fully loaded school bus at 19 mph on a

7.0% grade for 3.6 miles and shall be approved by the Department of Education.

8 VAC 20-70-790. Shock absorbers.

Bus shall be equipped with front and rear double-acting shock absorbers compatible with

manufacturer's rated axle capacity.

8 VAC 20-70-800. Springs.

A. Springs or suspension assemblies shall be of ample resiliency under all load conditions and

of adequate strength to sustain loaded bus without evidence of overload.

B. Springs or suspension assemblies shall be designed to carry their proportional share of gross

vehicle weight in accordance with requirement for "Weight Distribution" as shown in 8 VAC

20-70-850.

C. Rear springs shall be of progressive or variable type.

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D. Stationary eye of the front spring shall be protected by full wrapper leaf in addition to main leaf.

Exception Type A vehicles.

Springs that are regular equipment on vehicle to be purchased may be used.

## 8 VAC 20-70-810. Steering gear.

A. Steering gear shall be approved by chassis manufacturer and designed to assure safe and accurate performance when vehicle is operated with maximum load and maximum speed.

B. No changes shall be made in steering apparatus which are not approved by chassis manufacturer.

C. There shall be clearance of at least two inches between steering wheel and cowl instrument panel, windshield, or any other surface.

D. Power steering is required and shall be of the integral type with integral valves.

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8 VAC 20-70-820. Tires and rims.

A. Tire and rim sizes, based upon current standards of Tire and Rim Association, shall be required.

B. Total weight imposed on any tire shall not be above current standard of Tire and Rim Association.

C. Dual rear tires shall be provided on all vehicles.

D. All tires on given vehicles shall be of same size and ply rating.

E. Spare tire, if required, shall be suitably mounted in accessible location outside passenger compartment.

Exception Type A conversion van.

Same as above, except that dual rear tires are not required.

8 VAC 20-70-830. Transmission.

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A. Mechanical type transmission shall be synchromesh except first and reverse gears. Its design

shall provide not less than four forward and one reverse speeds. With five-speed transmission, fifth

gear shall be direct.

B. Automatic transmissions are permissible when equipped with a parking pawl or approved

parking brake system.

Exception Type A vehicles.

Three-speed transmissions are acceptable.

8 VAC 20-70-840. Turning radius.

Chassis with a wheel base of 264 inches or less shall have a right and left turning radius of not

more than 42 1/2 feet, curb to curb measurement. Chassis with a wheel base over 264 inches shall

have a right and left turning radius of not more than 44 1/2 feet curb to curb measurement.

8 VAC 20-70-850. Weight distribution.

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A. Weight distribution of fully loaded bus on level surface shall be such that not more than 75%

of gross vehicle weight is on rear tires, and not more than 35% is on front tires.

B. Exception Type D vehicles. With engine inside front of body, if entrance door is ahead of

front wheels, not more than 75% of gross vehicle weight shall be on rear tires, nor more than 50% on

front tires. If entrance door is behind front wheels, not more than 75% of gross vehicle weight shall

be on rear tires, nor more than 40% on front tires. With engine in rear, not more than 75% of gross

vehicle weight shall be on rear tires, nor more than 40% on front tires.

8 VAC 20-70-860. Wheels.

Disc wheels are required.

ARTICLE 3.

THE BUS BODY.

8 VAC 20-70-870, Aisle.

A. Minimum clearance of all aisles, including aisle (or passageway between seats) leading to

emergency door, shall be 12 inches. Aisles shall be unobstructed at all times. (See 8 VAC 20-70-990

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B. Aisle supports of seat backs shall be slanted away from aisle sufficiently to give aisle clearance of 15 inches at top of seat backs.

# C. Exceptions.

- 1. Type D vehicles with engine inside front of body: Minimum distance between barrier at rear of entrance stepwell and engine cover shall be 14 inches, measured at floor level.
  - 2. Type A vehicles to have minimum aisle width of 15 inches.
  - 3. Type B, forward control to have minimum aisle width of 14 inches.
  - 4. Buses equipped with wheelchair positions. See 8 VAC 20-70-1370 of this chapter.

# 8 VAC 20-70-880. Battery.

The battery shall be located in the engine compartment, except when otherwise specified on annual chassis specifications. (See 8 VAC 20-70-560 B) when mounted outside engine

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compartment.

8 VAC 20-70-890. Body sizes.

Sizes are based on knee-room clearance between rows of forward-facing seats, overall width,

center aisle width, and average rump width. Body lengths for various capacity units will be

designated in Specification Notices, issued periodically by the Pupil Transportation Service,

Department of Education.

8 VAC 20-70-900. Bumper, front.

See 8 VAC 20-70-580 of this chapter.

8 VAC 20-70-910. Bumper, rear.

A. Rear bumper shall be of pressed steel channel at least 3/16 inch by 9 1/2 inches.

B. It shall be wrapped around back corners of bus. It shall extend forward at least 12 inches,

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measured from rear-most point of body at floor line.

C. Bumper shall be attached to chassis frame in such manner that it may be easily removed,

shall be so braced as to develop full strength of bumper section from rear or side impact, and shall be

so attached as to prevent hitching of rides.

D. Rear bumper shall extend beyond rear-most part of body surface at least one inch, measured

at floor line.

Exception Type A vehicles.

Rear bumper shall be standard type furnished by chassis manufacturer as part of chassis on

conversion vans. Body manufacturer will furnish bumper on cutaway chassis.

8 VAC 20-70-920. Ceiling.

See insulation and interior, 8 VAC 20-70-1070 and 8 VAC 20-70-1080.

8 VAC 20-70-930, Chains.

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See wheel housings, 8 VAC 20-70-1300 D.

8 VAC 20-70-940. Color.

A. School bus body including hood, cowl, external speakers and fenders shall be painted uniform color, national school bus yellow.

B. Grill shall be national school bus yellow, if painted; otherwise it shall be chrome or anodized aluminum.

C. Rear bumper, body trim, and required rub rails shall be painted black.

D. The roof of the bus may be painted white extending down to the drip rails on the sides of the body except that front and rear roof caps shall remain national school bus yellow.

E. All paint shall meet the lead-free standards.

F. Retroreflective tape.

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Reflective material shall be installed on all buses ordered after July 1, 1994. Material shall be

Type V or better, as determined by the American Society of Testing Materials (ASTM): D4956-90.

"Standard specifications for reflective sheeting for traffic control."

1. The material shall retain at least 50% of reflectance values for a minimum of seven years.

2. Reflective materials and markings shall include all of the following:

a. On the rear, a strip of reflective yellow material two inches in width to be applied on the back

of the bus, extending from the left lower corner of the "SCHOOL BUS" lettering, across to left

side of the bus, then vertically down to the top of the bumper, across the bus on a line

immediately above the bumper to the right side, then vertically up to a point even with a

horizontal strip terminating at the right lower corner of the "SCHOOL BUS" lettering. (See

diagram 2.)

{See Diagram 2.}

b. "SCHOOL BUS" signs shall be marked with reflective yellow material comprising

background for lettering of the front and rear "SCHOOL BUS" signs. (See diagrams 2 and 3.)

{See Diagram 3.}

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c. Sides of the bus body shall be marked with reflective yellow material, two inches in

width, extending the length of the bus body and located (vertically) as close as practicable to the

beltline. (See diagram 4.)

{See Diagram 4.}

3. Reflective material shall be installed on the rear and sides of school activity buses, following

the same specifications in subdivisions 2 a and 2 c of this subsection. There will be no "SCHOOL

BUS" signs on either the front or the rear of the vehicle. Color of the reflective material shall match,

as closely as possible, the color of the bus body.

4. OPTION: Rear bumpers on school or activity buses may be marked with a maximum

three inch wide continuous black strip of reflective material which continues around corners to the

ends of the bumpers. (See diagram 2.)

8 VAC 20-70-950. Communication system - optional equipment.

A. Two-way communication systems. If two-way communication systems are installed on

school buses, the systems shall be subject to written policies adopted by the local school board.

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Installation shall be subject to the Department of Education Annual Fleet Assessment.

1. The radio mounting shall be in the driver's compartment in a safe, secure location, so as not to

interfere with normal bus operation.

2. Mounting shall be permanent type (temporary or slide in mounting will not be acceptable).

3. Wiring shall be protected by a proper fuse or circuit breaker and permanently connected to an

accessory circuit shut off by ignition switch. Plug-in type connections are not acceptable.

4. Antenna shall be permanently mounted to cowl or roof so as not to interfere with driver's

vision of roadway. Antenna lead in cable shall be permanently secured with the proper clamps,

grommets, and sealant. Antenna cable may not pass through window opening.

B. Public address system. For use by driver, the system contains an inside speaker and an

external speaker which is of special use when driver needs to caution pupils about surrounding

dangers at school bus stops. Inside speakers shall be recessed type.

C. AM/FM radios and cassette players. If AM/FM radios or cassette players are installed, they

shall be properly mounted by the body manufacturer or local shop personnel. All wiring shall be

properly connected and concealed and any speakers shall be of recessed type.

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D. Video camera. Advanced approval must be received from the Department of Education when

video camera equipment use on school buses is desired by the local school division. Both equipment

and installation shall be subject to the Department of Education annual fleet assessment.

1. Equipment shall not extend more than six inches from the front header panel into the driver's

compartment.

2. Camera boxes shall be mounted securely to the header without use of brackets or other

supports.

3. Mounted equipment shall be located on the left side of the front header and shall not interfere

with passenger ingress and egress.

8 VAC 20-70-960. Construction. Type B, C, and D vehicles.

A. Construction of body shall meet all requirements of FMVSS 220 (Roll-over), 49 CFR >

571.220, FMVSS 221 (Joint Strength), 49 CFR > 571.221, and all other applicable federal standards.

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B. Construction shall be of prime commercial quality steel or other metal with strength at least

equivalent to all-steel as certified by bus body manufacturer. All such construction materials shall be

fire resistant.

C. Construction shall provide reasonable dust proof and watertight unit.

D. Bus body (including roof bows, body posts, strainers, stringers, floor, inner and outer linings,

rub rails and other reinforcements) shall be of sufficient strength to support entire weight of fully

loaded vehicle on its top or side if overturned. Bus body as unit shall be designed and built to

provide impact and penetration resistance.

E. Side posts and roof bows. There shall be a body side post and roof bow fore and aft of each

window opening. This may be a continuous bow or two separate pieces effectively joined.

F. Floor shall be of prime commercial quality steel of at least 14-gauge or other metal or other

material at least equal in strength to 14-gauge steel. Floor shall be level from front to back and from

side to side except in wheel housing, toeboard, and driver's seat platform areas. When plywood is

used, it shall be of 1/2-inch exterior B.B. Grade or equivalent and securely fastened to the existing

steel floor.

G. Roof strainers. Two or more roof strainers or longitudinal members shall be provided to

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connect roof bows, to reinforce flattest portion of roof skin, and to space roof bows. These strainers

may be installed between roof bows or applied externally. They shall extend from windshield header

and, when combined with rear emergency door post, are to function as longitudinal members

extending from windshield header to rear floor body cross member. At all points of contact between

strainers or longitudinal members and other structural material, attachment shall be made by means

of welding, riveting or bolting.

H. Side strainers. There shall be one or more side strainers or longitudinal members to connect

vertical structural members and to provide impact and penetration resistance in event of contact with

other vehicles or objects. Such strainers shall be formed (not in flat strip) from metal of at least

16-gauge and three inches wide.

1. Side strainers shall be installed in area between bottom of window and bottom of seat frame

and shall extend completely around bus body except for door openings and body cowl panel. Side

strainers shall be fastened to each vertical structural member in any one or any combination of the

following methods as long as stress continuity of members is maintained:

a. Installed between vertical members:

b. Installed behind panels but attached to vertical members; and

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c. Installed outside external panels.

2. Fastening method employed shall be such that strength of strainers is fully utilized.

3. Side strainers of longitudinal members may be combined with one of required rub rails (see 8

VAC 20-70-1170), or be in form of additional rub rail, as long as separate conditions and physical

requirements for rub rails are met. No portion of side strainer or longitudinal member is to occupy

same vertical position as rub rail.

I. Rear corner reinforcements. Rear corner framing of bus body between floor and window sill

and between emergency door posts and last side posts shall consist of at least three structural

members applied horizontally or vertically, two of which shall be vertical, to provide additional

impact and penetration resistance equal to that provided by frame members in areas of sides of body.

Such structural members shall be securely attached at each end.

Exception: Extra vertical member required in subsection I above may be deleted on units of less

than 90 inches in width.

J. Floor sills. There shall be one main body sill at each side post and two intermediate body sills

on approximately 10-inch centers. All sills shall be of equal height, not to exceed three inches. All

sills shall extend width of body floor except where structural members or features restrict area.

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Main body sill shall be equivalent to or heavier than 10-gauge and each intermediate body sill

shall be equivalent to or heavier than 16 gauge, or each of all body sills shall be equivalent to or

greater than 14-gauge. All sills shall be permanently attached to floor.

Connections between sides and floor system shall be capable of distributing loads from vertical

posts to all floor sills.

K. All openings between chassis and passenger-carrying compartment made due to alterations of

body manufacturer shall be sealed. (See 8 VAC 20-70-1130)

L. A cover shall be provided for the opening to the gasoline tank fillpipe.

M. A moisture and rustproof removable panel shall be provided in the floor for access to the

fuel tank sender gauge. It shall be designed for prolonged use and adequate fastening to the floor.

Exception Type B vehicles.

Subsection M of this section does not apply.

{See Diagram 5.}

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8 VAC 20-70-970. Construction Type A vehicles.

A. Construction of body shall meet all requirements of FMVSS 220 (Roll over), 49 CFR >

571.220, and all other applicable federal standards.

B. Body joints created by body manufacturer shall meet the 60% joint strength provision

required in FMVSS 221, 49 CFR > 571.221, for Type B, C & D buses.

C. Construction shall be of prime commercial quality steel or other metal strength at least

equivalent to all steel as certified by bus body manufacturer. All such construction materials shall be

fire resistant.

D. Construction shall provide reasonably dustproof and watertight unit.

E. Bus body (including roof bows, body posts, strainers, stringers, floor, inner and outer linings,

rub rails and other reinforcements) shall be of sufficient strength to support entire weight of fully

loaded vehicle on its top or side if overturned. Bus body as unit shall be designed and built to

provide impact and penetration resistance.

F. Floor. Plywood of 1/2 inch exterior B.B. Grade or equivalent shall be applied over the

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existing steel floor and securely fastened. Floor shall be level from front to back and from side to

side except in wheel housing, toeboard and driver seat platform areas.

Exception. Plywood may be deleted when provisions of subsection D and subdivision H 1 of 8

VAC 20-70-960 for Type C and D are met.

G. Roof strainers. Two or more roof strainers or longitudinal members shall be provided to

connect roof bows to reinforce flattest portion of roof skin, and to space roof bows. These strainers

may be installed between roof bows or applied externally. They shall extend from windshield header

to rear body header over the emergency door. At all points of contact between strainers of

longitudinal members and other structural material, attachment shall be made by means of welding,

riveting, or bolting.

After load as called for in Static Load Test Code has been removed, none of the following

defects shall be evident:

1. Failure or separation at joints where strainers are fastened to roof bows;

2. Appreciable difference in deflection between adjacent strainers and roof bows;

3. Twisting, buckling, or deformation of strainer cross section.

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H. Side strainers. There shall be one longitudinal side strainer mounted at shoulder level

(window sill level) and extending from front main vertical post to rear corner post. This member

shall be attached to each vertical structural member. Such strainer shall be formed of metal (not in

flat strip).

1. There shall be one longitudinal side strainers installed in the area between bottom of window

and bottom of seat frame extending from front main vertical post to rear corner post. This member

shall be attached to each vertical structural member.

2. Strainers may be fastened in any one or any combination of the following methods as long as

stress continuity of members is maintained:

a. Installed between vertical members;

b. Installed behind panels but attached to vertical members; or

c. Installed outside external panels.

3. Fastening method employed shall be such that strength of strainers is fully utilized.

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I. Area between floor and window line shall be restructured inside to include at least four vertical

formed reinforcement members extending from floor to window line rail. They shall be securely

attached at both ends.

J. Rear corner reinforcements. Rear corner framing of the bus body between floor and window sill

and between emergency door post and last side post shall consist of at least one structural member

applied horizontally to provide additional impact and penetration resistance equal to that provided

by frame members in areas of sides of body. Such member shall be securely attached at each end.

Bodies over 90 inches in width shall comply with 8 VAC 20-70-960 I.

K. All openings between chassis and passenger carrying compartment made due to alterations by

body manufacturers shall be sealed. (See 8 VAC 20-70-1130.)

8 VAC 20-70-980. Defrosters.

Defrosters shall be of sufficient capacity to keep windshield clear of fog, ice, and snow and to

defog the window to the left of the driver. (See 8 VAC 20 70 1040) An auxiliary fan of sufficient

capacity to defog the entrance door glass shall be installed above the windshield on the right side.

An additional fan to the left of the driver is permissible. Fans shall be placed so as not to block

driver's view of outside rearview mirrors.

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Exception: Type A vehicle, Auxiliary fan not required.

8 VAC 20-70-990. Doors.

A. Service door.

1. Service door shall be manually or power-operated, under control of driver, and so designed as

to afford easy release and prevent accidental opening. No parts shall come together so as to shear or

crush fingers.

2. Service door shall be located on right side of bus opposite driver and within his direct view.

3. Service door shall have minimum horizontal opening of 24 inches and minimum vertical

opening of 68 inches.

4. Service door shall be of split type, jack knife type, or sedan-type. (Split-type door includes

any sectioned door which divides and opens inward or outward.) If one section of split-type door

opens inward and other opens outward, front section shall open outward. The jack knife-type shall

fold inward at the front of the door opening.

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- 5. Lower as well as upper panels shall be of approved safety glass. (See 8 VAC 20-70-1320 1)

  Bottom of lower glass panel shall not be more than 35 inches from ground when bus is unloaded.

  Top of upper glass panel shall not be more than six inches from top of door.
  - 6. Vertical closing edges shall be equipped with flexible material to protect children's fingers.
  - 7. There shall be no door left of driver.

Exception Type A vehicles. Standard does not apply.

- 8. All doors shall be equipped with padding at the top of each door opening. Pad shall be at least three inches wide and one inch thick and extend the full width of the door opening.
  - B. Rear emergency door Type B, C, and D vehicles.
  - 1. Emergency door shall be located in center of rear end of bus.
- 2. Rear emergency door shall have minimum horizontal opening of 24 inches and minimum vertical opening of 45 inches measured from floor level.

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3. Rear emergency door shall be hinged on right side and shall open outward and be equipped

with an adequate strap or stop to prevent door from striking lamps or right rear of body. Such strap

or stop shall allow door to open at least at a 90 degree angle from closed position.

Exception: Type D vehicles with rear engines.

Emergency door shall be located on the left side, shall be hinged on the left side and open

outward. Door shall meet all requirements of FMVSS 217, 49 > CFR 571.217.

4. Upper portion of rear emergency door shall be equipped with approved safety glass, exposed

area of which shall not be less than 400 square inches. (See 8 VAC 20-70-1320 1) Lower portion of

door shall be equipped with approved safety glass, area of which shall not be less than 12 inches in

height and 20 inches in width. This glass shall be protected by metal guard on inside. This guard

shall be free of any sharp edges that may cause injury to passengers.

5. There shall be no steps leading to emergency door.

6. No seat or other object shall be so placed in bus which restricts any part of passageway

leading to emergency door to an opening smaller than rectangle of 12 inches in width and 48 inches

in height, measured from floor level.

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7. When not fully latched, emergency door shall actuate signal audible to driver by means of

mechanism actuated by latch.

8. Words "EMERGENCY DOOR," both inside and outside in black letters two inches high,

painted or vinyl, shall be installed directly above emergency door. Words may be placed on the top

of door outside if space is available.

9. The emergency door shall be designed to open from inside and outside bus. It shall be

equipped with a slide bar and cam-operated lock located on left side of door and fastened to the door

framing.

The slidebar shall be approximately 1 1/4 inches wide and 3/8 inch thick and shall have a

minimum stroke of 1 1/4 inches. The slidebar shall have a bearing surface of a minimum of 3/4 inch

with the door lock in a closed position. Control from driver's seat shall not be permitted. Provision

for opening from outside shall consist of nondetachable device so designed as to prevent hitching to,

but to permit opening when necessary. Door lock shall be equipped with interior handle and guard

that extends approximately to center of door. It shall lift up to release lock.

10. All doors shall be equipped with padding at the top edge of each door opening. Pad shall be

at least three inches wide and one inch thick and extend the full width of the door opening.

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C. Rear emergency door Type A vehicles.

1. Emergency door shall be located in center of rear end of bus and shall be equipped with

fastening device for opening from inside and outside body, which may be quickly released but is

designed to offer protection against accidental release. Control from driver's seat shall not be

permitted. Provision for opening from outside shall consist of device designed to prevent hitching to

but to permit opening when necessary.

2. When not fully closed, emergency door shall actuate signal audible to driver.

3. Emergency door shall be marked "EMERGENCY DOOR" on inside and outside in painted or

vinyl black letters two inches high immediately above the emergency door.

4. There shall be no steps leading to emergency door.

5. No seat or other object shall be placed in bus which restricts passageway to emergency door

to less than 15 inches.

6. All doors shall be equipped with padding at the top edge of each door opening. Pad shall be at

least three inches wide and one inch thick and extend the full width of the door opening.

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D. Security locking system. A locking system designed to prevent vandalism, which is approved

by the Pupil Transportation Service, Department of Education, may be installed provided it is

equipped with an interlock in the chassis starting circuit and an audible alarm to indicate to the

driver when an emergency exit is locked while the ignition is in the "on" position. A cutoff switch on

the interlock circuit or a lock and hasp on emergency exits shall not be permitted.

8 VAC 20-70-1000. Electrical system.

1. Battery - see 8 VAC 20-70-560.

2. Alternator - see 8 VAC 20-70-540.

3. Lights and signals - see 8 VAC 20-70-730.

4. Wiring see 8 VAC 20-70-1350.

8 VAC 20-70-1010. Emergency equipment.

A. Fire extinguisher.

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1. Bus shall be equipped with one dry-chemical fire extinguisher of at least five pound capacity

with pressure indicator, mounted in extinguisher manufacturer's bracket of automotive type, and

located in full view and in an accessible place in the front of the bus excluding floor and area above

bottom line of windshield.

2. Fire extinguisher shall bear label of Underwriters' Laboratories, Inc., showing rating of not

less than 2A 10-B C.

3. Fire extinguisher shall have aluminum, brass, or steel valves, heads, check stems, siphon

tubes, levers, safety pins, chain, handles and metal hanging brackets. Plastic shall not be used for

those named parts.

B. First aid kit.

1. Bus shall carry Grade A metal first-aid kit, unit-type, mounted in full view and in accessible

place in the front of the bus and identified as a first-aid kit.

2. The first-aid kit shall contain the following items:

Item......Unit

Bandage compress (sterile gauze pads) 4-inch

Kit may be mounted behind left rear seat.

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D. Body fluid cleanup kit.

1. Each bus shall carry a Grade A metal or rigid plastic kit, mounted in an accessible place ar	nd
identified as a body fluid clean-up kit with a directions-for-use sheet attached to the inside cove	<del>Y.</del>
2. The kit shall be moisture proof and properly mounted or secured in a storage compartmen	at.
3. Contents shall include but not be limited to the following items:	
a. 1 pair latex gloves;	
b. 1 pick up spatula or scoop;	
e. 1 face mask;	
d. Infectious liquid spill control powder;	
e. Anti-microbial hand wipes - individually wrapped;	
f. Germicidal disinfectant wipes - tuberculocidal; and	

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g. Plastic disposal bag with tie.

## 8 VAC 20-70-1020. Emergency exits.

Each emergency exit shall comply with FMVSS 217, 49 CFR > 571.217, regarding the number of exits, types of exits and location of exits based of the capacity of the vehicle.

1. Side emergency exit doors.

a. A dedicated aisle of at least 12 inches in width, referenced to the rear of the emergency exit door is required.

b. Side emergency exit doors shall be hinged on the forward edge.

c. A one inch wide strip of yellow retroreflective tape shall be placed around the outside perimeter of the emergency opening, not the emergency exit itself.

d. When not fully latched, side emergency exit door shall actuate a signal audible to the driver by means of a mechanism actuated by the latch when the ignition switch is on.

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all specifications of 8 VAC 20-70-990 D of this chapter.

2. Roof exits/vents.

a. All Type A, B, C, and D vehicles shall be equipped with a minimum of one emergency

e. A security locking system designed to prevent vandalism may be installed provided it meets

roof exit/vent approved by the Department of Education.

b. When not fully latched, this exit shall actuate a signal audible to the driver by means of a

mechanism actuated by the latch when the ignition switch is on.

c. A roof exit/vent security locking system designed to prevent vandalism may be installed

provided it meets all specifications of 8 VAC 20-70-990 D.

d. A one inch wide strip of yellow retroreflective tape shall be placed around the outside

perimeter of the emergency exit opening, not the emergency exit itself.

NOTE: If the roof is painted white, the one-inch wide strip shall be white retroreflective

material.

e. When a single roof exit is installed, it shall be located as near as practicable to the

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longitudinal midpoint of the passenger compartment, and shall be installed such that the centerline of

the hatch is on the longitudinal centerline of the bus.

f. If two roof exits are utilized, they shall be located as near as practicable to the points

equidistant between the longitudinal midpoint of the passenger compartment and the front and the

rear of the passenger compartment.

NOTE: No removal or cutting of any roof structural component shall occur during installation.

If the installation required by subdivisions 2 e and 2 f of this section cannot be accomplished as

described, then prior approval by the Pupil Transportation Service will be required through a written

request from the local school division.

g. Roof exits/vents shall have rust proof hardware.

h. Roof exits/vents shall be hinged in the front and be equipped with an outside release handle.

3. Emergency exit windows.

a. Push-out emergency windows are permissible, if required by FMVSS 217, 49 CFR >

571.217.

b. When not fully latched, the emergency exit window shall actuate a signal audible to the

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driver by means of a mechanism actuated by the latch.

c. A one inch wide strip of yellow retroreflective tape shall be placed around the outside

perimeter of each emergency exit opening, not the emergency exit itself.

d. No emergency exit window shall be located directly in front of a side emergency exit door.

8 VAC 20-70-1030. Floor covering.

A. Floor (See 8 VAC 20-70-960.)

B. Floor in underseat area, including tops of wheel housings, driver's compartment and toeboard

shall be covered with fire-resistant rubber floor covering or an approved equivalent, having

minimum over-all thickness of .125 inch. Driver's compartment and toeboard area shall be trimmed

with molding strips behind the cowl face line.

C. Floor covering in aisle shall be of aisle type fire resistant rubber or an approved equivalent,

nonskid, wear-resistant and ribbed. Minimum overall thickness shall be .1875 inch measured from

tops of ribs. Rubber floor covering shall meet federal specifications ZZ-M71d.

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D. Floor covering shall be permanently bonded to floor, and shall not crack when subjected to

sudden changes in temperature. Bonding or adhesive material shall be waterproof and shall be of the

type recommended by manufacturer of floor-covering material. All seams shall be sealed with

waterproof sealer.

8 VAC 20-70-1040. Heaters.

A. Hot water heaters of fresh air or combination fresh air and recirculating type, with power

defrosters, are required.

B. Heaters shall bear name plate rating affixed by heater manufacturer on top of heater shell.

C. Heaters shall be capable of maintaining inside temperature of 500 F, with an outside

temperature of 200 F when the bus is loaded to one half capacity.

D. The heater wiring shall be connected to the cold side of the ignition switch through a

continuous duty solenoid relay Cole Hersee No. 24106 or equivalent. (See 8 VAC 20-70-1350 D.)

E. The power defroster shall deliver a sufficient amount of heated air distributed through a

windshield duct, nozzle or nozzles to defog and deice the entire windshield, and to defog the driver's

window. The duct, nozzle, or nozzles shall be designed to prevent objects from being placed in any

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manner which would obstruct the flow of air.

F. Water circulation cut off valves in the supply and return lines, a minimum of 3/4 inch

diameter, shall be at or near the engine. A water flow regulating valve in the pressure line for

convenient operation by the driver is also required.

G. Heater hoses, including those in engine compartment, shall be supported in such manner that

hose chafing against other objects will not occur nor shall suspended water lines interfere with

routine vehicle maintenance.

H. All water hoses in driver or passenger area shall be shielded.

I. An auxiliary heater of recirculating type, having a minimum capacity of 60,000 BTU output,

shall be installed under the second seat behind the wheelhousing. There shall be a grille or guard

over exposed heater cores to prevent damage by pupils' feet.

J. A booster pump in the intake heater line shall be provided on all Type B, C and D buses.

K. Exception Type A vehicles.

1. Front heater with high output and defroster shall be furnished by the chassis manufacturer.

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2. The body manufacturer shall provide an additional underseat heater near the rear of the bus.

8 VAC 20-70-1050. Identification of school buses.

For purpose of identification school buses shall be lettered as follows:

1. Lettering shall be placed according to Diagrams 7 and 8. Lettering shall be of black paint or

vinyl and conform to "Series B" for Standard Alphabets for Highway Signs.

2. Both the front and rear of the body shall bear the words, "SCHOOL BUS" in black letters

eight inches in height.

3. All school buses shall have a black painted or vinyl number four inches high on the rear of

the body, on the right side just back of the entrance door, and on the left side just back of the

warning sign. (See Diagrams 7 and 8.) The number shall also be placed on the front bumper,

approximately 18 inches from the right end in yellow letters four inches high.

4. The name of the school division shall be on each side of the bus in black letters four inches

high - as ".... COUNTY PUBLIC SCHOOLS," or "... CITY PUBLIC SCHOOLS."

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5. Options.

a. The bus number may be placed in the center of the bus roof with black (12-inch minimum) numbers.

b. A black number (four-inch maximum) may be placed on the inside rear header. It shall not interfere with emergency door lettering.

**8 VAC 20-70-1060. Inside height.** 

Inside body height shall be 72 inches or more, measured metal to metal, at any point on longitudinal center line from front vertical bow to rear vertical bow.

Exception Type A conversion van.

Inside body height shall be 63 inches minimum.

8 VAC 20-70-1070. Insulation.

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Ceilings and walls shall be coated with proper materials to deaden sounds and to reduce

vibrations to a minimum. Fiber glass thermal insulation (minimum thickness one inch) shall be used

to insulate walls and roof between inner and outer panels.

8 VAC 20-70-1080. Interior.

Interior of bus shall be free of all unnecessary projections likely to cause injury. This standard

requires inner lining on ceilings and walls. Ceiling panels shall be constructed so as to contain

lapped joints with all exposed edges hemmed to minimize sharpness. If lateral panels are used,

forward panels shall be lapped by rear panels.

8 VAC 20-70-1090. Lights and signals - see Diagrams 7 and 8.

No lights or signals other than specified here shall be installed on school buses, except those

required by federal regulations. All lights and reflectors shall be approved by the Superintendent,

Department of State Police, Commonwealth of Virginia.

1. Clearance lights. Body shall be equipped with two red clearance lamps at rear, two amber

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clearance lamps at front, and intermediate side marker lamps on buses 30 feet or more in length.

They shall be of armour type.

2. Identification lamps. Three amber lamps shall be mounted on front and three red lamps on

rear of body.

3. Stop and tail lamps. Bus shall be equipped with two matched stop and tail lamps of heavy

duty type, which shall be in combination, emitting red light plainly visible from a distance of at least

500 feet to rear, and mounted on rear end with their centers not less than 12 nor more than 24 inches

from plane side of body, and not less than six nor more than 18 inches below D-glass in rear of body.

They shall be approximately seven inches in diameter. These lights shall be on the same horizontal

line with the turn signal units and shall not flash. A list of approved stop and tail lights will be

supplied to the body manufacturers by the Pupil Transportation Service, Department of Education.

The use of lights not on this list will not be approved.

4. For illumination of rear license plate, the type of stop and tail light with which the chassis is

equipped may be used. The stop light connection will be made to this light.

5. Back-up lamps. Back-up lamps shall be mounted on the rear of the body and shall be

illuminated when the ignition switch is energized and reverse gear is engaged.

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6. Interior lamps. Interior lamps shall be provided which adequately illuminate aisles and

stepwell.

7. Turn signal units. Bus shall be equipped with Class A, flashing turn signal units of

heavy duty type. These signals shall be independent units equipped with amber lenses on all faces.

The turn signals/directional signal units shall activate only when ignition is in "on" position. A pilot

light or lights shall indicate when these lights are activated. The front lights shall be mounted near

the front corners of chassis on each side. The rear lights shall be seven inches in diameter and

mounted not less than six nor more than 18 inches from plane of the side of the body and not less

than six nor more than 18 inches below D-glass in rear of body. They shall be on the same horizontal

line with the stop and tail lights required in 3 above.

a. In addition to the turn signals described above, two amber lenses metal turn signal lamps

of armour type with a minimum of four candlepower each shall be mounted on the body side at

approximate seat level height and located just to the rear of the entrance door on the right side of

the body and approximately the same location on the left side. They are to be connected to and

function with the regular turn signal lamps. Such lamps shall provide 1800 angle vision and if

painted, they shall be black.

b. A list of approved turn signal lights will be supplied to the body manufacturers by the Pupil

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Transportation Service, Department of Education. The use of lights not on this list will not be

approved.

c. Exception Type A conversion vans.

Turn signals shall be chassis manufacturer's standard.

8. Hazard warning signal. The turn signal units shall also function as the hazard warning system.

The system shall operate independently of the ignition switch and, when energized, shall cause all

turn signal lamps to flash simultaneously.

9. Reflex reflectors. (Class A) Two amber lights and two amber reflectors (they may be

combined) shall be mounted, one on each side, near the front of the chassis. Two four-inch red

reflectors shall be mounted, one on each side near the rear of the body and two four-inch red

reflectors shall be mounted on the rear above the bumper. Two intermediate amber four inch

reflectors, one on each side near the middle of the bus, shall be mounted on buses 30 feet or more in

length. They shall be mounted on panel above floor line rub rail and be metal encased.

10. School bus traffic warning lights.

a. Buses shall be equipped with four red lamps and four amber lamps. One amber lamp shall

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be located near each red lamp, at the same level, but closer to the vertical center line of the bus.

Lamps to be 80 watts, 12-volt sealed beam clear spot units five inches in diameter with seven

inch acrylic lens, including component parts and location necessary for their operation. All lamps

shall comply with SAE standards for school bus warning lamps. Information on such approved

components will be supplied by the Pupil Transportation Service, Department of Education.

b. The traffic warning light system shall be wired so that the amber lamps are activated

manually by a hand operated switch. When door is opened, amber lamps will be automatically

deactivated and red lamps, warning sign with flashing lamps and crossing control arm shall be

activated. When door is closed, all lamps shall be deactivated. No lamps shall come on when door is

reopened unless the manual switch is depressed. There shall also be a cancellation switch in case

lamps are accidentally activated or when no stop needs to be made.

e. The control circuit shall be connected to the cold side of the ignition switch with the

master push button cancel switch mounted on the accessory console, clearly distinguished, visible

and accessible to the driver.

d. The flasher and the relay shall be fastened in a compartment in the driver area and be

easily accessible for servicing. The location of the flasher shall be approved by Pupil

Transportation Service, Department of Education.

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e. System shall contain an amber pilot light for amber lamps and a red pilot light for red lamps,

clearly visible to the driver, to indicate when system is activated.

f. A three-inch black painted border around the lamps is required if not equipped with a black

painted housing.

g. All electrical connections shall be soldered or connected by an acceptable SAE method.

h. The traffic warning lamp system shall require a separate control panel. This panel shall be as

small as practicable, and switches and pilot lamps shall be located in conformance with the diagram

below. All switches shall be properly identified by labels.

{See Diagram 6.}

i. The panel shall be located at or near the entrance door control handle within easy reach,

visible, and be readily accessible to the driver.

j. There shall be an interrupt feature in the system to interrupt the traffic warning sign and the

crossing control arm when their use is not desired. This feature shall consist of a double throw relay

and a push button momentary switch.

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k. Manual switch, cancel switch and interrupt switch shall be push button or flip type

momentary switches.

11. School bus traffic warning sign.

a. Warning sign shall be mounted on the left side near the front of the bus immediately below

the window line.

b. Sign shall be of the octagon series, 18 inches in diameter, 16-gauge cold rolled steel, and

be equipped with windguard. The sign shall have a red background with a 1/2 inch white border,

and the word "STOP" on both sides in white letters, six inches high and one inch wide. The sign may

be reflective.

e. Sign shall have double-faced alternately flashing red lamps, four inches in diameter,

located at the top and bottommost portions of the sign, one above the other.

d. The sign shall be connected and energized through the red traffic warning lamps.

e. Air operated signs require air pressure regulator in addition to control valve. Source of

supply shall be the main air tank with a pressure protection valve at the tank.

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f. Sign and components shall comply with all provisions of SAEJ 1133. A list of approved

traffic warning signs and components will be supplied by the Pupil Transportation Service,

Department of Education.

12. School bus crossing control arm.

a. An approved crossing control arm shall be mounted on the right end of the front bumper

with mounting brackets appropriate for the bumper configuration. Information on such approved

arms will be supplied by the Pupil Transportation Service, Department of Education.

b. The arm shall be activated in conjunction with the traffic warning sign.

c. Wiring for an electric powered arm shall be grounded to a metal base at a suitable place on

the bumper.

d. Source of supply for air operated arms shall be the main air supply tank with pressure

protection valve at tank.

e. Appropriate grommets or a loom shall be used where wires or tubes go through holes in

bumper and firewall.

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13. Optional strobe warning light.

a. A white flashing strobe light may be installed on the roof of a school bus not to exceed

1/3 of the body length from the rear of the roof edge. Light shall have a single clear lens emitting

light 360 degrees around its vertical axis. A manual switch and a pilot light must be included to

indicate when the light is in operation.

b. The strobe light must operate only when the bus transports students during periods of

reduced visibility caused by conditions other than darkness.

c. A list of approved strobe lights and components will be supplied by the Pupil

Transportation Service, Department of Education.

{See Diagram 7.}

{See Diagram 8.}

8 VAC 20-70-1100. Metal treatment.

All metal parts that will be painted shall be chemically cleaned, etched, zinc-phosphate-coated,

and zinc-chromate or epoxy-primed or conditioned by equivalent process.

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8 VAC 20-70-1110. Mirrors.

A. Interior rear view mirror at least six X 30 inches, metal encased safety glass of at least 1/8

inch thickness, which will afford good view of pupils and roadway to rear and shall be installed in

such a way that vibration will be reduced to a minimum. It shall have rounded corners and protected

edges.

B. All buses shall have a mirror system which conforms to FMVSS 111, 49 CFR > 271.111 as

amended.

C. Mirrors shall be rigidly braced so as to reduce vibration.

D. An adjustable convex mirror with a minimum diameter of four inches and a maximum

diameter of five inches may be mounted on each side on a separate arm attached to the mounting of

the regular outside mirror. This convex mirror shall be mounted so that it can be positioned

immediately below the regular outside mirror. Stick-on convex type mirrors to the face of regular

outside mirrors are prohibited.

E. A list of approved mirrors will be supplied to body manufacturers by the Pupil Transportation

Service, Department of Education. The use of mirrors not on this list will not be approved.

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Exception Type A vehicles.

Interior mirror to be six X 16 inches minimum and outside six X nine-1/2 inches mounted on

doors.

F. Heated exterior mirrors are permissible.

8 VAC 20-70-1120. Mounting.

A. Chassis frame shall extend to rear edge of rear body cross member. Bus body shall be

attached to chassis frame in such manner as to prevent shifting or separation of body from chassis

under severe operating conditions.

B. Body front shall be attached and sealed to chassis cowl in such manner as to prevent entry of

water, dust, and fumes through joint between chassis cowl and body.

C. Insulating material shall be placed at all contact points between body and chassis frame.

Insulating material shall be approximately 1/4 inch thick and shall be so attached to chassis frame or

body member that it will not move under severe operating conditions.

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D. Exception Type A conversion vans.

Standard does not apply.

## 8 VAC 20-70-1130. Openings.

Any openings in body or front fenders of chassis resulting from change necessary to furnish required components shall be sealed. (See 8 VAC 20 70 750 and 8 VAC 20 70 960 K.)

## 8 VAC 20-70-1140. Overall length.

Overall length of bus shall not exceed 36 feet for conventional flat faced cowl units or 40 feet for metropolitan type.

## 8 VAC 20-70-1150. Overall width.

Overall width of bus shall not exceed 100 inches, including traffic warning sign in closed position. Outside rearview mirrors are excluded.

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8 VAC 20-70-1160. Posts.

Posts - See 8 VAC 20-70-960 and 8 VAC 20-70-1320 C.

8 VAC 20-70-1170. Rub rails.

A. There shall be one rub rail located on each side of bus immediately below window level

which shall extend from rear side of entrance door completely around bus body (except for

emergency door) to point of curvature near outside cowl on left side. If floor level rub rail extends to

emergency door post in rear, this rub rail may stop at rear side post.

Exception. This rub rail is not required between the front body post and rear side post if an

internal frame member (fortress rail) of greater strength is positioned immediately below the window

level. The rub rail shall be applied from the last sidepost to the emergency doorpost.

B. There shall be one rub rail located on each side of bus approximately at seat level which shall

extend from rear side of entrance door completely around bus body (except for emergency door) to

point of curvature near outside cowl on left side. This rail shall be painted black.

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C. There shall be one rub rail located approximately at floor line which shall extend from rear

side of entrance door completely around bus body (except for emergency door) to point of curvature

near outside cowl on left side, except at wheel housings. If the window level rub rail extends to

emergency door post in rear, this rub rail may stop at rear side post.

D. All rub rails shall be attached at each body post and all other upright structural members.

E. All rub rails shall be of four inches or more in width, shall be of 16 gauge steel, and shall be

constructed in corrugated or ribbed fashion.

F. All rub rails shall be applied outside body or outside body posts. Pressed-in or snap-on rub

rails do not satisfy this requirement.

G. Certain exceptions may be approved for heater airintake and for rear engine type buses.

Exception Type A vehicles.

Rail required in subsection A of this section does not apply on conversion vans.

8 VAC 20-70-1180, Seat belt for driver.

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A locking retractor type 2 lap belt/shoulder harness seat belt shall be provided for the driver.

Each belt section shall be booted so as to keep the buckle and button type latch off the floor and

within easy reach of the driver. Belt shall be anchored in such a manner or guided at the seat frame

so as to prevent the driver from sliding sideways from under the belt.

8 VAC 20-70-1190, Seats.

A. All seats shall have minimum depth of 14 inches.

B. In determining seating capacity of bus, allowable average rump width shall be 13 inches.

(See 8 VAC 20-70-890.)

C. All seats shall be forward facing. They shall have two legs securely fastened to the floor with

the other end supported by rail or bracket on side wall.

D. Seating plans for buses with wheelchair positions see 8 VAC 20-70-1370 and 8 VAC

20-70-1450. All other seating plans will be approved annually by Pupil Transportation Service,

Department of Education.

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E. Seat cushions shall have 24-hour glass coil-type springs interlaced and securely fastened to

plywood base having minimum thickness of 1/2 inch. Urethane foam may be used in place of

springs if sample is submitted and approved each year.

Passenger seat cushion retention system shall be employed to prevent passenger seat cushions

from disengaging from seat frames in event of accident. Each seat cushion retention system shall be

capable of withstanding vertical static load equal to minimum of five times weight of cushion.

System shall also be capable of withstanding forward or rearward static load equal to 20 times

weight of cushion.

F. No bus shall be equipped with jump seats or portable seats. (See 8 VAC 20-70-1500.)

G. Seat spacing shall provide a minimum of 25 inch knee room at center of seat, when measured

horizontally from back to back, at cushion level.

H. Seat and back cushions of all seats shall be designed to safely support designated number of

passengers under normal road conditions encountered in school bus service. Covering of seat

cushions shall be of material having 42 ounce finished weight, 54 inch width, and finished vinyl

coating of 1.06 broken twill. Material on polyester drill and polyester cotton twill knit backing with

equal vinyl coating which meets or exceeds the laboratory test results for the 42 ounce 1.06 covering

may be used. Padding and covering on all seats shall comply with provisions of FMVSS 302, 49

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CFR > 571.302.

I. Minimum distance between steering wheel and back rest of driver's seat shall be 11 inches.

Driver's seat shall have fore-and-aft adjustment of not less than four inches and up and down

adjustment of three inches. It shall be manually adjustable and strongly attached to floor.

J. Minimum of 36-inch head room for sitting position above top of undepressed cushion line of

all seats shall be provided. Measurement shall be made vertically not more than seven inches from

side wall at cushion height and at fore-and-aft center of cushion.

K. Backs of all seats of similar size shall be of same width at top and of same height from floor

and shall slant at same angle with floor.

L. Seat back heights shall be between 19 and 24 inches measured from cushion level.

8 VAC 20-70-1200, Barriers.

A. A padded barrier shall be installed at rear of driver's seat in such a position as neither to

interfere with adjustment of driver's seat nor to obstruct 21 inch entranceway to the aisle.

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B. A padded barrier shall be installed at rear of entrance stepwell. Placement shall not restrict

entrance passageway at any level to less than 21 inches. Barrier to coincide with length of the right

front seat cushion with minimum width of 26 inches and shall have a modesty panel to extend from

bottom of barrier to floor.

C. Lift gate units see 8 VAC 20-70-1460 B.

8 VAC 20-70-1210. Steering wheel.

Steering wheel - See 8 VAC 20-70-810 4.

8 VAC 20-70-1220. Steps.

A. First step at service door shall be not less than 10 inches and not more than 14 inches from

ground, based on standard chassis specifications.

B. Service door entrance may be equipped with two-step or three-step stepwell. Risers in each

case shall be approximately equal.

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C. Steps shall be enclosed to prevent accumulation of ice and snow.

D. Steps shall not protrude beyond side body line.

E. Grab handle not less than 20 inches in length shall be provided in unobstructed location

inside doorway, but shall not be attached so that it will interfere with the opening of the glove

compartment door. This handle shall be designed to eliminate exposed ends that would catch

passenger clothing and shall be so placed in a position to aid small children entering the bus.

F. Step covering. All steps, including floor line platform area, shall be covered with 3/16 inch

rubber metal-backed treads with at least 1 1/2-inch white nosing (or three inch white rubber step

edge with metal back at floorline platform area).

1. Step tread minimum overall thickness shall be 3/16-inch ribbed design, similar to ribbed

design of the rubber aisle;

2. Metal back of tread, minimum 24 gauge cold rolled steel, shall be permanently bonded to

ribbed rubber; grooved design shall be such that said grooves run at 900 angle to long dimensions of

step tread;

3. 3/16-inch ribbed step tread shall have a 1 1/2-inch white nosing as integral piece without any

Board of Education Regulations Governing Pupil Transportation 8 VAC 20-70- 10 et seq. Page 112 of 136 joint; and

4. Rubber portion of step treads shall have following characteristics:

a. Special compounding for good abrasion resistance and high coefficient of friction;

b. Flexibility so that it can be bent around a 1/2-inch mandrel both at 200 F and 1300 F without breaking, cracking, or crazing; and

c. Show a durometer hardness 85 to 95.

## 8 VAC 20-70-1230. Stirrup steps.

There shall be one folding stirrup step and suitably located handle on each side of front of body for easy accessibility for cleaning windshield and lamps.

Exception Type A vehicles. Standard does not apply.

8 VAC 20-70-1240. Storage and luggage compartments.

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A. Two metal storage compartments for tools, chains and supplies are required. (A local school

division may waive the requirement for one of the two compartments if chains or tools are not

carried on bus and a written request for deletion has been filed with the Pupil Transportation

Service, Department of Education and noted in the purchase agreement.)

B. One of the metal compartments shall have adequate strength and capacity for storage of

chains and other emergency tools and one of the compartments shall be moisture proof, equipped

with a lock and suitable for storage of cleaning supplies. Such containers shall be located outside

passenger compartment in body skirt on the right side of body with a door hinged at the top or front

and equipped with an adequate fastener.

C. Vehicles may be equipped with luggage compartments in the body skirt provided they do not

reduce ground clearance to less than 14 1/2 inches from bottom of compartment and that the addition

of the compartments does not exceed the vehicles' GVWR.

8 VAC 20-70-1250. Sun shield.

Interior adjustable transparent sun shield, darkest shade available, not less than 60 X 30 inches

shall be installed in position convenient for use by driver.

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Exception Type A vehicles. Manufacturer's standard is acceptable.

8 VAC 20-70-1260. Tail pipe.

Tail pipe shall extend to but not more than 1 1/2 inches beyond outer edge of rear bumper. (See

8 VAC 20-70-640 B.)

8 VAC 20-70-1270. Undercoating.

Entire underside of bus body, including floor sections, cross members, and below floor line side

panels, shall be coated with rust-proofing compound for which compound manufacturer has issued

notarized certification of compliance to bus body builder that compounds meet or exceed all

performance requirements of Federal Specification TT-C-520 b using modified test procedures for

following requirements:

1. Salt spray resistance - pass test modified to 5.0% salt and 1,000 hours;

2. Abrasion resistance - pass;

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3. Fire resistance pass.

Undercoating compound shall be applied with suitable airless or conventional spray equipment

to recommend film thickness and shall show no evidence of voids in cured film. Undercoating is

expected to prevent rust under all bus service conditions for minimum of five years.

8 VAC 20-70-1280. Ventilation and air conditioning.

A. Body shall be equipped with suitable, controlled ventilating system of sufficient capacity to

maintain proper quantity of air under operating conditions without opening of windows except in

extremely warm weather.

B. Static-type, nonclosable, exhaust roof ventilators shall be installed in low-pressure area of

roof panel.

C. Air conditioning units may be installed on an optional basis. Application requires heavier

electrical components and assessment by the Pupil Transportation Service, Department of Education,

on an individual unit basis.

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8 VAC 20-70-1290. Water test.

Each and every school bus body, after it is mounted on chassis ready for delivery, shall be

subjected to a thorough water test in which water under pressure equal to a driving rain is forced

against the entire bus body from various directions. Any leaks detected are to be repaired before the

bus is declared ready for delivery.

**8 VAC 20-70-1300. Wheel housings.** 

A. Wheel housings shall be of full open type.

B. Wheel housings shall be designed to support seat and passenger loads and shall be attached

to floor sheets in such manner as to prevent any dust or water from entering the body.

C. Inside height of wheel housings above floor line shall not exceed 10 inches.

D. Wheel housings shall provide clearance for dual wheels as established by National

Association of Chain Manufacturers.

Exception -

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Standard does not apply to Type A conversion vans.

8 VAC 20-70-1310. Width.

Width - See 8 VAC 20-70-1150.

8 VAC 20-70-1320. Windshield and windows.

A. All glass in windshield, windows, and doors shall be of approved safety glass, so mounted

that permanent mark is visible, and of sufficient quality to prevent distortion of view in any

direction. Windshield shall be AS1 and all other glass shall be AS2.

B. Plastic glazing material of a thickness comparable to AS2 glass, meeting ANSI Standard Z

26.1 and FMVSS 205, 49 CFR > 571.205, may be used in side windows behind the driver's

compartment.

C. Windshield shall have horizontal shade band consistent with SAE J-100.

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D. Each full side window shall provide unobstructed emergency opening at least nine inches

high and 22 inches wide, obtained either by lowering of window or by use of knock-out type

split-sash windows.

E. Approved tinted glass or plastic glazing material may be used.

F. All exposed edges of glass shall be banded.

8 VAC 20-70-1330. Windshield washers.

Windshield washers meeting federal requirements shall be provided and shall be controlled by

push button switch located on instrument panel. Reservoir shall be mounted outside passenger

compartment.

8 VAC 20-70-1340. Windshield wipers.

A. Bus shall be equipped with two variable speed windshield wipers of air or electric type

powered by two motors of sufficient power to operate wipers.

Regulations Governing Pupil Transportation 8 VAC 20-70- 10 et seq. Page 119 of 136 B. Blades and arms shall be of such size that minimum blade length will be 12 inches with longer blades being used whenever possible. C. Wiper motor and arm linkage shall be shielded to prevent objects from being placed against them. Exception Type A vehicles. One variable speed motor is acceptable. 8 VAC 20-70-1350. Wiring. A. All wiring shall conform to current standards of Society of Automotive Engineers. B. Circuits. 1. Wiring shall be arranged in at least 12 regular circuits as follows: a. Head, tail, stop (brake) and instrument panel lamps; b. Clearance lamps;

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Board of Education Regulations Governing Pupil Transportation 8 VAC 20-70- 10 et seq. Page 120 of 136  c. Dome and stepwell lamps;	
d. Starter motor;	
e. Ignition;	
f. Turn-signal units;	
g. Alternately flashing red signal lamps;	
h. Horns;	
i. Heater and defroster;	
j. Emergency door buzzer;	
k. Auxiliary fan; and	

2. Any of above combination circuits may be subdivided into additional independent circuits.

1. Booster pump;

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3. Whenever possible, all other electrical functions (such as electric-type windshield wipers) shall

be provided with independent and properly protected circuits.

4. Each body circuit shall be color coded and a diagram of the circuits shall be attached to the

body in a readily accessible location.

C. A separate fuse or circuit breaker shall be provided for each circuit except starter motor and

ignition circuits.

D. A continuous duty solenoid relay, Cole Hersee No. 24106 or approved equal, operated by the

ignition switch, shall be provided fans, and booster pump (Circuits i, j, k and l).

E. All wires within body shall be insulated and protected by covering of fibrous loom (or

equivalent) which will protect them from external damage and minimize dangers from short circuits.

Whenever wires pass through body member, additional protection in form of appropriate type of

insert shall be provided.

F. All light circuits shall be such as to provide, as nearly as possible, bulb design voltage at

lightbulb terminals.

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G. Wires shall be fastened securely at intervals of not more than 24 inches. All joints shall be

soldered or jointed by equally effective connectors.

{See Diagram 9.}

{See Diagram 10.}

#### PART VI.

### STANDARDS FOR LIFT-GATE SCHOOL BUSES.

8 VAC 20-70-1360. General requirements.

A. School buses or school vehicles designed for transporting children with special transportation

needs shall comply with Virginia's standards applicable to school buses and Federal Motor Vehicle

Safety Standards as applicable to their GVWR category.

B. Any school bus that is used for the transportation of children who are confined to a

wheelchair or other restraining devices which prohibit use of the regular service entrance, shall be

equipped with a power lift, unless a ramp is needed for unusual circumstances.

C. Lift shall be located on the right side of the body, in no way attached to the exterior sides of

the bus but confined within the perimeter of the school bus body when not extended.

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D. Every driver who transports students with disabilities shall receive instruction, training and		
demonstration in the following areas; however, the instruction shall not be limited to these topics:		
1. Characteristics and symptoms of disabilities of the children being transported;		
2. Dealing with disruptive behavior;		
3. Using special equipment to include but not limited to:		
a. Lifts and ramps;		
b. Wheelchairs;		
c. Tie-down systems;		
d. Restraining/assistive devices; and		
e. Mobility devices.		
4. Loading and unloading; and		

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5. Planning for and executing emergency evacuation drills.

## 8 VAC 20-70-1370. Aisles.

All aisles leading to the emergency door from wheelchair area shall be a minimum of 30 inches in width.

## 8 VAC 20-70-1380. Communications.

Special education buses may be equipped with a two-way radio communication system. (See 8 VAC 20-70-950 A.)

# 8 VAC 20-70-1390. Fastening devices.

Unless otherwise specified below, fastening devices shall conform to FMVSS 222, 49 CFR > 571.222, as amended.

1. Wheelchair fastening devices shall be provided and attached to the floor or walls or both to

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enable securement of wheelchairs in the vehicle. The devices shall be of the type that require human

intervention to unlatch or disengage. The fastening devices shall be designed to withstand forces up

to 3,000 pounds per tiedown leg or clamping mechanism or 12,000 pounds total for each wheelchair.

2. Additional fastening devices may be needed to assist the student due to the many different

configurations of chairs and exceptionalities.

8 VAC 20-70-1400. Heaters.

An additional heaters shall be installed in the rear portion of the bus behind wheel wells as

required in 8 VAC 20-70-1040 I, except a 50,000 minimum BTU heater may be used in bodies

originally designed for 31-66 passenger capacity and 34,000 minimum BTU heater may be used in

bodies of 30 passengers or less. Hose to rear heater, when under body shall be encased in metal tube.

8 VAC 20-70-1410. Identification.

Buses with wheelchair lifts used for transporting children with physical disabilities shall display

universal handicapped symbols located on the front and rear of the vehicle below the windowline.

Such emblems shall be white on blue, shall be a minimum of nine inches and a maximum of 12

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inches in size, and shall be reflectorized. They shall be placed so as not to cover lettering, lamps or

glass.

8 VAC 20-70-1420. Power lift.

A. Lifting mechanism shall be able to lift minimum pay load of 1,000 pounds. A clear opening

and platform to accommodate at least a 30 inch wide wheelchair shall be provided.

B. When the platform is in the fully up position, it shall be locked in position mechanically and

also shall have an additional support, or lug in the door to prevent the lift from resting against the

door.

C. Controls shall be provided that enable the operator to activate the lift mechanism from either

inside or outside of the bus. There shall be a means of preventing the lift platform from falling while

in operation due to a power failure.

D. Power lifts shall be so equipped that they may be manually raised in the event of power

failure of the power lift mechanism.

E. Lift travel shall allow the lift platform to rest securely on the ground.

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F. All edges of the platform shall be designed to restrain wheelchair and to prevent operator's

feet from being entangled during the raising and lowering process.

G. Up and down movements of the lift platform shall be perpendicular to the plane of the bus

body in all positions.

H. A restraining device shall be affixed to the outer edge (curb end) of the platform that will

prohibit the wheelchair from rolling off the platform when the lift is in any position other than fully

extended to ground level.

I. A self-adjusting, skid resistant plate shall be installed on the outer edge of the platform to

minimize the incline from the lift platform to the ground level. This plate, if so designed, may also

suffice as the restraining device described in subsection H above. The lift platform shall be skid

resistant.

J. A circuit breaker or fuse energized through the ignition side of the accessory solenoid, shall

be installed between power source and lift motor if electrical power is used.

K. The lift mechanism shall be equipped with adjustable limit switches or by pass valves to

prevent excessive pressure from building in the hydraulic system when the platform reaches the full

up position or full down position.

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L. Handrails shall be required.

M. Sharp or protruding edges or components shall be padded.

8 VAC 20-70-1430. Ramps.

When a power lift system is not adequate to load and unload students having special and unique needs, a ramp device may be installed.

1. If a ramp is used, it shall be of sufficient strength and rigidity to support the special device, occupant, and attendants. It shall be equipped with a protective flange on each longitudinal side to keep special device on the ramp.

- 2. Floor of ramp shall be of nonskid construction.
- 3. Ramp shall be of weight and design, and equipped with handles, to permit one person to put ramp in place and return it to its storage place.

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8 VAC 20-70-1440. Regular service entrance.

A. In Type D vehicles, there shall be three step risers, of equal height, in the entrance well.

B. An additional fold-out step may be provided which will provide for the step level to be no

more than six inches from the ground level.

C. Three step risers in Type C vehicles are optional.

8 VAC 20-70-1450. Restraining devices.

Seat frames may be equipped with attachments or devices to which restraining harnesses or

other devices may be attached. Attachment framework or anchorage devices, if installed, shall

conform with FMVSS 210, 49 CFR > 571.210.

8 VAC 20-70-1460. Seating arrangements.

A. Flexibility in seat spacing to accommodate special devices shall be permitted due to the

constant changing of passenger requirements.

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B. There shall be a padded barrier forward of any standard seating position and between lift-gate

and first seat to rear of lift-gate. A wheelchair position immediately forward of lift-gate shall have a

barrier between lift and wheelchair. (See 8 VAC 20-70-1200.)

8 VAC 20-70-1470. Special light.

Lights shall be placed inside the bus to sufficiently illuminate lift area and shall be activated

from door area. An outside light to be activated when lift door is open and deactivated when lift door

is closed is permissible.

8 VAC 20-70-1480. Special service entrance.

A. Bus bodies may have a special service entrance constructed in the body to accommodate a

wheelchair lift for the loading and unloading of passengers.

B. The opening to accommodate the special service entrance shall be at any convenient point on

the right (curb side) of the bus and far enough to the rear to prevent the doors, when open, from

obstructing the right front regular service door (excluding a regular front service door lift).

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C. The opening shall not extend below the floor level. Outboard type lifts shall be used.

D. The opening, with doors open, shall be of sufficient width to allow the passage of

wheelchairs. The minimum clear opening through the door and the lift mechanism shall be 30 inches

in width.

E. A drip moulding shall be installed above the opening to effectively divert water from

entrance.

F. Entrance shall be of sufficient width and depth to accommodate various mechanical lifts and

related accessories as well as the lifting platform.

G. Door posts and headers from entrance shall be reinforced sufficiently to provide support and

strength equivalent to the areas of the side of the bus not used for service doors.

H. Special service entrance doors shall be equipped with padding at the top edge of the door

opening. Pad shall be at least three inches wide and one inch thick and extend the full width of the

door opening.

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8 VAC 20-70-1490. Special service entrance doors.

A. A single door may be used if the width of the door opening does not exceed 43 inches.

B. Two doors shall be used if any door opening would have to exceed 43 inches.

C. All doors shall open outwardly.

D. All doors shall have positive fastening devices to hold doors in the open position.

E. All doors shall be weather sealed and on buses with double doors, they shall be so constructed that a flange on the forward door overlaps the edge of the rear door when closed.

F. When dual doors are provided, the rear door shall have at least a one-point fastening device to the header. The forward mounted door shall have at least three-point fastening devices. One shall be to the header, one to the floor line of the body, and the other shall be into the rear door. These locking devices shall afford maximum safety when the doors are in the closed position. The door and hinge mechanism shall be of a strength that will provide for the same type of use as that of a standard entrance door.

G. Door materials, panels and structural strength shall be equivalent to the conventional service

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and emergency doors. Color, rub rail extensions, lettering and other exterior features shall match

adjacent sections of the body.

H. Each door shall have windows set in rubber compatible within one inch of the lower line of

adjacent sash.

I. Doors shall be equipped with a device that will actuate a red flashing visible signal located in

the driver's compartment when doors are not securely closed and ignition is in "on" position.

J. A switch shall be installed so that the lifting mechanism will not operate when the lift

platform doors are closed.

8 VAC 20-70-1500. Special optional equipment.

Special seats for attendants may be installed on an optional basis. The location, restraints, and

so forth shall be assessed and approved on an individual unit basis. All equipment shall be secured

properly.

PART VII.

**ACTIVITY VEHICLES.** 

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8 VAC 20-70-1510. Regulations and standards.

Activity vehicles owned or operated under contract by or for the school board, which are used

solely to transport pupils to and from school activity events, shall comply with all applicable

regulations and standards prescribed for school buses except as noted in this article.

1. Exceptions, general regulations.

a. An activity vehicle transporting school pupils shall be operated at a safe, legal speed not in

excess of 55 miles per hour.

b. No standees shall be permitted.

c. The eight inch school bus lettered identification and traffic warning devices shall be removed

by the local school division as required by >> 46.2-100 and 46.2-1090 of the Code of Virginia. The

name of the school division or individual school shall be placed on both sides of the vehicle.

d. Stops for the purpose of loading or discharging pupils on the travel portion of the highway

shall not be permitted.

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2. Exceptions, minimum standards for school buses in Virginia.

a. School activity vehicles shall not be painted national school bus yellow.

b. Other type seats and increased spacing may be used provided all provisions of FMVSS 222, 49 CFR > 571,222, are met.

#### DOCUMENTS INCORPORATED BY REFERENCE

American National Standard 224.5-1951, American National Standards Institute.

American National Standard 226.1, Safety Code for Safety Glazing Materials for Glazing Motor Vehicles Operating on Land Highways, American National Standards Institute.

ASTM Standard D4956-90, American Society for Testing and Materials.

Federal Specification TT-C-520(b), Specifications of bus undercoating.

National School Transportation Specifications & Procedures, May, 2000

Preventive Maintenance Manual for Virginia School Bus Personnel and School Administrators, 1983.

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School Bus Manufacturer's Standards for Fuel Tanks.

School Bus Manufacturer's Standards for Heating Systems.

SAE Standard J180 for Bus Alternatives, Society of Automotive Engineers.

Current Standards of the Tire and Rim Association.

Virginia School Bus Driver Training Curriculum Guide, 1977.

 $Statutory\ Authority:\ Article\ VIII,\ Section\ 4\ of\ the\ \underline{Constitution\ of\ Virginia};\ sections\ 22.1-16,$ 

22.1-176, 22.1-177, and 22.1-178 of the Code of Virginia.

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