

**NEW HAMPSHIRE STATE FIRE MARSHAL'S OFFICE  
CONTINUATION OF INSPECTION REPORT**

<b>CASE #:</b> <b>2090045</b>	<b>INVESTIGATOR:</b> <b>Keith Rodenhiser</b>	<b>ID#:</b> <b>909</b>	<b>TOWN:</b> <b>Greenville</b>
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**Greenville Elementary School**

This building is an approximately 2-story, 18,000 sq. ft. building constructed in the in the 1980's. This building is presently classified as an existing educational occupancy by NFPA 101 Life Safety Code – Chapter 15.

**1. Fire Detection, Alarm, and Communications System**

15.3.4.1.1 Educational occupancies shall be provided with a fire alarm system in accordance with Section 9.6.

9.6.1.3 A fire alarm system required for life safety shall be installed, tested, and maintained in accordance with the applicable requirements of NFPA 70, National Electrical Code, and NFPA 72, National Fire Alarm Code, unless it is an approved existing installation, which shall be permitted to be continued in use.

*(2<sup>nd</sup> Floor hallway also contains incorrect detection).*

**2. Protection of Vertical Openings**

15.3.1.1 Any vertical opening, other than unprotected vertical openings in accordance with 8.6.8.2, shall be enclosed or protected in accordance with Section 8.6.

8.6.8.2 Where permitted by Chapter 12 through Chapter 42, unenclosed vertical openings not concealed within the building construction shall be permitted as follows:

- (1) Such openings shall connect not more than two adjacent stories (one floor pierced only).
- (2) Such openings shall be separated from unprotected vertical openings serving other floors by a barrier complying with 8.6.5.
- (3) Such openings shall be separated from corridors.
- (4) Such openings shall not serve as a required means of egress.

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**3. Due to the present open ramp/stairwell configuration, travel distance may be exceeded.**

15.2.6.1 Travel distance to an exit shall not exceed 150 ft (46 m) from any point in a building, unless otherwise permitted by 15.2.6.2 or 15.2.6.3. (See also Section 7.6.)

**4. Windows for Rescue – Some classroom windows may not comply due to height or design.**

15.2.11.1.1 Every room or space greater than 250 ft<sup>2</sup> and used for classroom or other educational purposes or normally subject to student occupancy shall have not less than one outside window for emergency rescue that complies with the following.

- (1) Such windows shall be openable from the inside without the use of tools and shall provide a clear opening of not less than 20 in. in width, 24 in. in height, and 5.7 ft<sup>2</sup> in area.
- (2) The bottom of the opening shall be not more than 44 in. above the floor, and any latching device shall be capable of being operated from not more than 54 in. above the finished floor.
- (3) The clear opening shall allow a rectangular solid, with a width and height that provides not less than the required 5.7 ft<sup>2</sup> opening and a depth of not less than 20 in. (510 mm), to pass fully through the opening.

*(This requirement goes away with an approved automatic sprinkler system; Window/Guard spacing is incorrect in some classroom locations).*

**5. Means of Egress**

Horizontal-Sliding Doors are not permitted under normal circumstances for required exits.

*(Sliding door(s) in the Cafeteria should be changed-out).*

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**6. Protection from Hazards**

15.3.2.1 Rooms or spaces for the storage, processing, or use of materials shall be protected in accordance with the following:

(1) Such rooms or spaces shall be separated from the remainder of the building by fire barriers having a fire resistance rating of not less than 1 hour **or** protected by automatic extinguishing systems as specified in Section 8.7 in the following areas:

- (a) Boiler and furnace rooms, unless such rooms enclose only air-handling equipment
- (b) Rooms or spaces used for the storage of combustible supplies in quantities deemed hazardous by the authority having jurisdiction
- (c) Rooms or spaces used for the storage of hazardous materials or flammable or combustible liquids in quantities deemed hazardous by recognized standards

(2) Such rooms or spaces shall be separated from the remainder of the building by fire barriers having a fire resistance rating of not less than 1 hour **and** protected by automatic extinguishing systems as specified in Section 8.7 in the following areas:

- (b) Maintenance shops, including woodworking and painting areas
- (c) Rooms or spaces used for processing or use of combustible supplies deemed hazardous by the authority having jurisdiction
- (d) Rooms or spaces used for processing or use of hazardous materials or flammable or combustible liquids in quantities deemed hazardous by recognized standards

**7. Commercial Cooking Equipment**

15.3.2.2 Cooking facilities shall be protected in accordance with 9.2.3.

9.2.3 Commercial Cooking Equipment. Commercial cooking equipment shall be in accordance with NFPA 96, Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations, unless such installations are approved existing installations, which shall be permitted

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to be continued in service.

Fire-extinguishing equipment for the protection of grease removal devices, hood exhaust plenums, and exhaust duct systems shall be provided.

Cooking equipment that produces grease-laden vapors and that might be a source of ignition of grease in the hood, grease removal device, or duct shall be protected by fire extinguishing equipment. Fire-extinguishing equipment shall include both automatic fire-extinguishing systems as primary protection and portable fire extinguishers as secondary backup.

Where a fire alarm signaling system is serving the occupancy where the extinguishing system is located, the activation of the automatic fire-extinguishing system shall activate the fire alarm signaling system.

**8. Verify and provide documentation that oil-burning equipment meets the minimum requirements of NFPA 31.** *(Present situation in the old building does not appear to provide sufficient make-up air).*

5.2.1 Oil-burning appliances and equipment shall be installed in locations where available ventilation permits satisfactory combustion of oil, proper venting of combustion gases, and maintenance of safe ambient temperatures under normal conditions of use.

5.4.1.2 Each opening shall have a free area of not less than 1 in.<sup>2</sup> per 1000 Btu/hr (140 in.<sup>2</sup> per gal/hr) (22 cm<sup>2</sup>/kW), based on the total input rating of all appliances in the space.

5.4.1.3 Each opening shall freely communicate with interior areas of the building that, in turn, have adequate infiltration from the outside.

5.4.2 All Air Taken from Outdoors.

5.4.2.1 The confined space shall be provided with two permanent openings, one in or near the top of the space and one in or near the bottom.

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5.4.2.2 The openings shall communicate directly or by means of ducts with the outdoors or to spaces, such as an attic or crawl space, that themselves freely communicate with the outdoors.

**9. Electrical Systems – Potential electrical problems exist.**

Electrical wiring and equipment shall be in accordance with NFPA 70, National Electrical Code®, unless such installations are approved existing installations, which shall be permitted to be continued in service.

Extension cords shall not be used as a substitute for permanent wiring.

Extension cords shall be plugged directly into an approved receptacle, power tap, or multiplug adapter and shall, except for approved multiplug extension cords, serve only one portable appliance. The ampacity of the extension cords shall not be less than the rated capacity of the portable appliance supplied by the cord. The extension cords shall be maintained in good condition without splices, deterioration, or damage. Extension cords shall be grounded when servicing grounded portable appliances. Extension cords and flexible cords shall not be affixed to structures; extend through walls, ceilings, or floors, or under doors or floor coverings; or be subject to environmental or physical damage.

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