

NEBRASKA

Good Life. Great Safety.

STATE FIRE MARSHAL AGENCY



Pete Ricketts, Governor

February 12, 2018

Superintendent Mikal Shalikow
Newman Grove Public Schools
101 South 8th St.
Newman Grove, NE 68758

Mr. Shalikow,

On January 31, 2018, in response to information received through phone calls, text messages, and emails from a media contact, Deputy State Fire Marshal Todd Brehm and I conducted fire and life safety inspections at the educational buildings at 101 South 8th Street, Newman Grove. During the inspection several Life Safety Code and fire code deficiencies were observed. These deficiencies include the lack of fire barrier separation for the stairways, the lack of fire barrier separation of hazardous areas, lack of proper rescue windows in classrooms where required, inadequate automatic fire alarm devices, improper electrical wiring uses, and lack of means of egress signage and emergency lighting.

Attached is a correction order listing the deficiencies. Some items will be required to be corrected before the start of the 2018-2019 school year. A Plan of Correction shall be provided to this office listing specific completion dates for each item. I understand that you and the School Board are aware of many of these items that need corrected and have been working toward this plan. Once an acceptable plan is developed, it must be approved and signed by each member of the School Board.

I would be happy to meet with you further to discuss this matter. My goal in applying the Life Safety Code is to provide a safe learning environment for students and an environment their parents/guardians can be assured provides reasonable safety and protection to life in the event of a fire or other emergency. Please contact me at 402-395-2164 in you have any questions.

Respectfully,

Sean Lindgren
Chief Deputy State Fire Marshal

cc. Deputy State Fire Marshal Todd Brehm
Assistant State Fire Marshal Don Fritz

MAIN OFFICE
246 South 14th Street
Lincoln, NE 68508-1804
Office (402) 471-2027

DISTRICT A OFFICE
246 South 14th Street
Lincoln, NE 68508-1804
Office (402) 471-2590

DISTRICT B/C OFFICE
438 West Market
Albion, NE 68620-1241
Office (402) 395-2164

FUELS DIVISION
 FLST Pipeline Safety
246 South 14th Street
Lincoln, NE 68508-1804
Office (402) 471-9465

TRAINING DIVISION
3347 W Capital Ave
Grand Island, NE 68801
Office (308) 385-6892

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	Fee Sheet Number:	
Facility Name Newman Grove Public Schools	Occupant Street Address 101 South 8th Street	
Operator & Phone number Mikal Shalikow, Superintendent	City / Town Newman Grove	
Owner / Address / Phone number/Email Newman Grove Public Schools 101 South 8th Street Newman Grove, NE 68758	County Madison	
	How Occupied Existing Educational Occupancy	
Occupant load	Date of Inspection 1-31-18	Fee Card <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
ORDER		

Contact person/number : Mikal Shalikow, 402-447-6294, mikal.shalikow@gmail.com
 Initial inspection : 1-31-18
 Revisit inspection :
 Hours of operation :
 Plan review numbers :

New Gym Occupancy: 1572

Upper bleacher area – 432
 Lower telescoping bleachers – 287 Total fixed seating = 719 Occupancy
 Gym floor area = 853 Occupancy

Cafeteria (old Gym) Occupancy: 396 Occupancy

Fixed seating area – 105
 Floor area – 291

High School Building

1. The automatic fire sprinkler system shall be extended into the following non-sprinkler protected areas:
 - a) The main gymnasium area
 - b) The “cafeteria” area to include the stage, kitchen, and band room
 NFPA 13, 8.1

2. 18” of clearance shall be maintained under sprinkler heads in the Janitors Office. NFPA 13 2002, 8.7.5.3.1

3. Extension cords shall not be used as a substitute for permanent wiring. Electrical cords shall not pass through nor be concealed above the ceiling tile. Additional electrical receptacles shall be added if needed. NFPA 1: 11.1.5, NFPA 70, Art. 400.8
 - a) Rm 106 Extension cord going thru ceiling tile.
 - b) Rm 107 Extension cord going thru ceiling tile.
 - c) Rm 109 Extension cord going thru ceiling tile.

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- d) Rm 112 Extension cord going thru ceiling tile behind teacher desk.
 - e) Light weight extension cords in kitchen.
 - f) Mounted fan in kitchen plugged into extension cord.
4. Working space clearance of 36 inches shall be maintained to the front electrical panels. NFPA 70: art. 110.26(A)(1)
 - a) Electrical panel Janitors closet (riser room across from Rm 106)
 - b) Electrical panel in kitchen blocked by freezer
 5. The kitchen exhaust hood and ductwork is not constructed with seamless welds. All seams, joints, penetrations in the exhaust hood, exhaust duct, and duct-to-hood collar connections shall have a liquid tight continuous external weld. Listed grease filters, listed baffles, or other listed grease removal devices for use with commercial cooking equipment shall be provided. Mesh filters shall not be used. NFPA 96, 7.5, 6.1
 6. The air velocity through any duct shall be not less than 152.4 m/min (500 cu. ft/min). Exhaust air volumes for hoods shall be of a sufficient level to provide for capture and removal of grease-laden cooking vapors. NFPA 96, 8.2
 7. A Class K rated portable fire extinguisher shall be provided in the kitchen. NFPA 96, 10.10.1, NFPA 10, 5.7.1
 8. The heat detector hanging by wires in the Kitchen bathroom shall be repaired. NFPA 101, 4.12.2
 9. Means of egress shall be continuously maintained free of all obstructions or impediments to full instant use in the case of fire or other emergency. NFPA 101, 7.1.10.1
 - a) Weights at the bottom of the north end bleachers shall be removed.
 - b) Boxes in the hallway outside of the Janitor's office shall be removed.
 10. Clear Access to the sprinkler system riser in the Janitors room located across from Room 106 shall be maintained. NFPA 13, 8.15.1.1.7
 11. An Exit sign shall be installed indicating an exit on the north side of the bleachers going to exit stairs NFPA 101, 13.2.10
 12. An Emergency lighting shall be installed in the exit stairs on the north side of bleachers going to exit door. NFPA 101, 13.2.9
 13. Transition out of door from the North bleacher exit stairs measured 7 ½ inches. The elevation of the floor surface on both sides of a door shall not vary by more than ½ in. NFPA 101, 7.2.1.3
 14. Missing Ceiling tiles throughout the facility shall be in place at all times to ensure the proper operation and detection of the building fire, smoke detection, and alarm system.

- a) Band Room missing ceiling tile.
 - b) Library work room missing ceiling tile.
 - c) Room 109 missing ceiling tile
15. Fire extinguishers having a gross weight not exceeding 40 lbs. shall be installed so that the top of the fire extinguisher is not more than 5 ft. above the floor. Fire extinguishers having a gross weight greater than 40 lbs. shall be so installed that the top of the fire extinguisher is not more than 3 1/2 ft. above the floor. In no case shall the clearance between the bottom of the fire extinguisher and the floor be less than 4 in. NFPA 10: 1.5.10
- a) Fire Extinguisher in band room measured 68" off of the floor.
 - b) Fire Extinguisher in Storage room between science rooms measured 68" off the floor
 - c) Fire Extinguisher in storage room between science rooms sitting on counter shall be installed.
16. Science rooms 109, 110, and the storage area between 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 supervised automatic fire sprinkler systems. Any openings in the barrier shall be protected by fire doors with a fire resistance rating of not less than 45 minutes and be self-closing. NFPA 101, 15.3.2.1
17. The lower level located under the stage area used for locker rooms, storage, and mechanical space, has only one exit. Every floor/level shall be provided with not less than 2 separate means of egress. Occupancy of the lower level shall not be approved for anything other than storage and mechanical space. NFPA 101, 15.2.4, 13.2.4, 7.5.1.2
18. The Band classroom space on the upper level above the kitchen 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. (51 cm) in width, 24 in. (61 cm) in height, and 5.7 ft² (0.53 m²) in area.
 - (2) The bottom of the opening shall be not more than 44 in. (112 cm) above the floor and any latching device shall be capable of being operated from not more than 54 in. (137 cm) 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-ft² (0.53-m²) opening and a depth of not less than 20 in. (51 cm), to pass fully through the opening.

Exception No. 1: This requirement shall not apply to buildings protected throughout by an approved automatic sprinkler system in accordance with Section 9.7.

NFPA 101, 15.2.11

19. Railing around bleachers in Cafeteria (old Gym) are at 25 1/2 inches shall be 42 inches in height with openings in guard rails shall be so that a 4 in. sphere in diameter opening exists. NFPA 101, 7.2.2.4.6

7.2.2.4.6 Guard Details.

- (1) The height of guards required in 7.2.2.4.1 shall be measured vertically to the top of the guard from the surface adjacent thereto.
- (2) Guards shall be not less than 42 in. (107 cm) high.

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Exception No. 3: Existing guards on existing stairs shall be permitted to be not less than 30 in. (76 cm) high*

20. 1 ½ hour fire rated doors in the south east corner of the gym going into gym from the main corridor shall not project into the corridor more than 7" when fully open. Fire rated doors shall be self-closing and latching within the door frame and shall not be held open by means other than a magnetic hold open device tied to the fire alarm system. NFPA 101, 7.2.1.4.4, 15.2.5.5, NFPA 80, 2-1.4.1
21. It shall be the duty of principals and teachers to inspect all exit facilities daily to ensure that all stairways, doors, and other exits are in proper condition. NFPA 101, 15.7.2.1
22. The automatic fire sprinkler system post indicator valve located on the southwest corner of the building near the highway shall be secured by means of a lock. On the day of inspection the handle/wrench was missing and valve was not secured. NFPA 25, 12.3.1.2

Ag / Shop / Art Building:

1. At least one window in Ag classroom shall be continuously maintained free of all obstructions or impediments to full instant use in the case of fire or other emergency. NFPA 101, 7.1.10.1, 15.2.11
2. The Wood/Welding Shop shall be separated from the rest of the building by not less than a 1 hour fire barrier **AND** protection by a supervised automatic fire sprinkler system. Any openings in the fire barrier shall be protected by not less than a 45 minute rated assembly. NFPA 101, 15.3.2.1(2)b.
3. Flexible cords and power strips shall not be used as a substitute for permanent wiring. NFPA 70, Art 400.8 (1)
 - Refrigerator in Ag classroom plugged into a power strip.
 - Microwave in Ag Office plugged into electrical cord

Elementary Building

1. On the day of inspection there were 2 preschool classrooms in the lower level. Wherever student occupancy exists below the level of exit discharge, every portion of such floor shall be protected throughout by an automatic sprinkler system. Where student occupancy does not exist on floors below the level of exit discharge, such floors shall be separated from the rest of the building by 1-hour fire resistance-rated construction or shall be protected through-out by an automatic sprinkler system in accordance to 9.7. NFPA 101, 15.3.5.1

NOTE: For the remainder of the 2017-2018 school year, while students occupy the lower level classrooms, an approved Fire Watch shall be conducted. Student occupancy shall not be approved in the lower level classrooms for the 2018-2019 school year if the existing conditions remain.

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2. Every room used for a classroom or other educational purposes or normally subject to student occupancy shall have not less than one outside window for emergency rescue.

(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. (51 cm) in width, 24 in. (61 cm) in height, and 5.7 ft² (0.53 m²) in area.

(2) The bottom of the opening shall be not more than 44 in. (112 cm) above the floor and any latching device shall be capable of being operated from not more than 54 in. (137 cm) 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-ft² (0.53-m²) opening and a depth of not less than 20 in. (51 cm), to pass fully through the opening.

Exception No. 1: This requirement shall not apply to buildings protected throughout by an approved automatic sprinkler system in accordance with Section 9.7.

NFPA 101, 15.2.11

3. The 5th grade, 3rd grade, and Title classrooms on the upper floor shall be provided with exit access leading directly to emergency fire escape unless travel through intervening rooms is in accordance with Life Safety Code. NFPA 101, 15.2.5.4
4. Emergency Lighting shall be in all interior stairs and corridors, assembly use spaces, interior or windowless portions of the building, shops and laboratories, and flexible and open plan buildings. NFPA 101, 15.2.9
5. Means of Egress shall have exit signs throughout the facility. NFPA 101, 15.2.10
6. All corridor doors shall be 20 min fire resistance rating with self-closing devices. NFPA 101, 15.3.6
Exception No. 5: Existing doors in 1/2-hour fire resistance-rated corridor walls shall be permitted to be 13/4-in. (4.4-cm) thick solid-bonded wood core doors or the equivalent.
7. Fire Extinguishers throughout the facility having a gross weight not exceeding 40 lbs. shall be installed so that the top of the fire extinguisher is not more than 5 ft above the floor. Fire extinguishers having a gross weight greater than 40 lbs. shall be so installed that the top of the fire extinguisher is not more than 3 1/2 ft above the floor. In no case shall the clearance between the bottom of the fire extinguisher and the floor be less than 4 in. NFPA 10: 1.5.10
8. Items being stored at the bottom of the stairs and in the egress corridors shall be maintained free of all obstructions or impediments to full instant use in the case of fire or other emergency. NFPA 101, 7.1.10.1
9. Each of the 2 stairways shall be enclosed and separated by construction meeting a 1 hour fire resistance rating as required by NFPA 101, 15.3.1, 15.2, 7.1.3.2
10. Hazard areas shall be separated from the remainder of the building by fire barriers having a fire resistance rating of not less than 1 hour with a 45 min rated fire door with self-closure in the following areas: NFPA 101, 15.3.2.
 - a) Storage room in the basement at the bottom of the stairs.

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- b) Storage closet in the basement in the commons area.
- c) Storage areas on the 1st and 2nd floors coat room area.
- d) Storage rooms off of classrooms.
- e) Boiler room in the basement. (Door Label painted over)
- f) Storage in the female bathroom in the basement shall be separated.
- g) Storage room in the north preschool room.

11. Extension cords shall not be used as a substitute for permanent wiring. Electrical cords shall not pass through walls. Additional electrical receptacles shall be added if needed. NFPA 1: 11.1.5, NFPA 70, Art. 400.8

- a) Extension cords being used in boiler room.
- b) Extension cords in teachers' lounge going thru wall to microwave.
- c) Extension cord in teachers' lounge going thru wall to Refrigerator.
- d) Microwave shall be plugged directly into an outlet.
- e) Refrigerator shall be plugged directly into an outlet.

****A Plan of Correction shall be submitted to this office no later than May 14, 2018 to include specific completion dates for all deficiencies.****

All items must be corrected to comply with the laws of the State of Nebraska and with rules and regulations adopted by the State Fire Marshal as mandated by section 81-502 to 81-541.01

It is the duty of the owner or person in charge of the above-named facility to immediately take measures to bring the facility into compliance with state regulations. **ALL CORRECTIONS SHALL BE MADE AND ALL ITEMS CORRECTED ON OR BEFORE.** Plan of Correction

If you have questions on this Order, contact: Chief Deputy State Fire Marshal Sean Lindgren by phone at 402-395-2164 or by Email at sean.lindgren@nebraska.gov

Witness my signature at Albion, Nebraska this 12th day of February

By:



Sean Lindgren, Chief Deputy State Fire Marshal