

## FIRE SAFETY REPORT FOR STATE SCHOOLS AND COLLEGES

<b>DISTRICT &amp; ADDRESS:</b> New Hampton Community School District 710 West Main Street, New Hampton, Iowa 50659	
<b>SCHOOL LOCATION:</b> High School & Educational Options 710 West Main Street, New Hampton, Iowa 50659	<b>GRADES:</b> 9-12
<b># OF STUDENTS:</b> 342 (High School) + 12 (Educational Options)	

<b>BUILDING CODE:</b> 19-4662-0109
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<b>DATE:</b> 03/08/2017	<b>COUNTY:</b> Chickasaw
<b>TELEPHONE:</b> (641) 394-2144	

<b>SUPERINTENDENT:</b> Jay Jurrens
<b>E-MAIL ADDRESS:</b> <a href="mailto:j_jurrens@new-hampton.k12.ia.us">j_jurrens@new-hampton.k12.ia.us</a>

<b>PRESIDENT OF BOARD:</b> Joe Rosonke
<b>E-MAIL ADDRESS:</b> <a href="mailto:joe_rosonke@new-hampton.k12.ia.us">joe_rosonke@new-hampton.k12.ia.us</a>

<b>CONSTRUCTION:</b> Type II	<b># OF STORIES:</b> Two stories
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<b>PREVIOUS ORDERS COMPLIED WITH:</b> 12/15/2014
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### COMPLY AS FOLLOWS:

#### **Combustible Waste Material - Spontaneous Ignition - 2015 International Fire Code - 304.3.1:**

*Materials susceptible to spontaneous ignition, such as oily rags, shall be stored in a listed disposal container. Contents of such containers shall be removed and disposed of daily.*

- Reminder to empty the Wood Shop stain rag pail in the Paint Booth daily.

#### **Fire and Tornado Drills in Public Schools - Iowa Code §100.31:**

*It shall be the duty of the state fire marshal and the fire marshal's designated subordinates to require all private and public school officials and teachers to conduct not less than four fire drills and not less than four tornado drills in all school buildings during each school year when school is in session; and to require the officials and teachers of all schools to keep all doors and exits of their respective rooms and buildings unlocked when occupied during school hours or when such areas are being used by the public at other times. Not less than two drills of each type shall be conducted between July 1 and December 31 of each year and not less than two drills of each type shall be conducted between January 1 and June 30 of each year.*

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- Reminder to ensure not less than four fire drills and not less than four tornado drills are conducted in all school buildings during each school year when school is in session for the time frames specified above.

## **Emergency Preparedness Requirements - Group E Occupancies - 2015 International Fire Code - 403.5.1:**

*First emergency evacuation drill. The first emergency evacuation drill of each school year shall be conducted within 10 days of the beginning of classes.*

- Reminder to conduct an emergency evacuation drill within 10 days of the beginning of classes for the school year.

## **Emergency Evacuation Drills - Record Keeping - 2015 International Fire Code - 405.5:**

*Records shall be maintained of required emergency evacuation drills and include the following information:*

1. *Identity of the person conducting the drill.*
  2. *Date and time of the drill.*
  3. *Notification method used.*
  4. *Staff members on duty and participating.*
  5. *Number of occupants evacuated.*
  6. *Special conditions simulated.*
  7. *Problems encountered.*
  8. *Weather conditions when occupants were evacuated.*
  9. *Time required to accomplish complete evacuation.*
- Document and maintain all of the required information for emergency drills (fire and tornado).

## **Emergency and Standby Power Systems - Emergency Lighting Equipment - 2015 International Fire Code - 604.6-604.6.2.1:**

*604.6.1 Activation test. An activation test of the emergency lighting equipment shall be completed monthly. The activation test shall ensure the emergency lighting activates automatically upon normal electrical disconnect and stays sufficiently illuminated for not less than 30 seconds.*

*604.6.2 Power test. For battery-powered emergency lighting, a power test of the emergency lighting equipment shall be completed annually. The power test shall operate the emergency lighting for not less than 90 minutes and shall remain sufficiently illuminated for the duration of the test.*

*604.6.1.1 Activation test record. & 604.6.2.1 Power test record. Records of tests shall be maintained. The record shall include the location of the emergency lighting tested, whether the unit passed or failed, the date of the test and the person completing the test.*

- Test each emergency lighting fixture annually for 90 minutes, in addition to the monthly testing for 30 seconds that is already being completed. Maintain written records of monthly and annual test results.

**Electrical - Abatement of Electrical Hazards - 2015 International Fire Code - 605.1:**

*Identified electrical hazards shall be abated. Identified hazardous electrical conditions in permanent wiring shall be brought to the attention of the responsible code official. Electrical wiring, devices, appliances and other equipment that is modified or damaged and constitutes an electrical shock or fire hazard shall not be used.*

- The electrical outlet below the drinking fountain in the Weight Room did not have ground-fault circuit-interrupter protection (GFCI). Install an outlet with GFCI protection at this location.

**Electrical - Working Space and Clearance - 2015 International Fire Code - 605.3:**

*A working space of not less than 30 inches in width, 36 inches in depth and 78 inches in height shall be provided in front of electrical service equipment. Where the electrical service equipment is wider than 30 inches, the working space shall be not less than the width of the equipment. Storage of materials shall not be located within the designated working space.*

- Reminder to maintain clearance around all electrical panels in the school.

**Electrical - Unapproved Conditions - 2015 International Fire Code - 605.6:**

*Open junction boxes and open-wiring splices shall be prohibited. Approved covers shall be provided for all switch and electrical outlet boxes.*

- Provide a cover for the open junction box with exposed wires on the ceiling of the southwest Lower Level Janitor Closet.

**Fire-Resistance-Rated Construction - Maintenance - 2015 International Fire Code - 703.1:**

*The required fire-resistance rating of fire-resistance-rated construction, including, but not limited to, walls, firestops, shaft enclosures, partitions, smoke barriers, floors, fire-resistive coatings and sprayed fire-resistant materials applied to structural members and fire-resistant joint systems, shall be maintained. Such elements shall be visually inspected by the owner annually and properly repaired, restored or replaced when damaged, altered, breached or penetrated. Records of inspections and repairs shall be maintained... Openings made therein for the passage of pipes, electrical conduit, wires, ducts, air transfer openings and holes made for any reason shall be protected with approved methods capable of resisting the passage of smoke and fire. Openings through fire resistance rated assemblies shall be protected by self or automatic closing doors of approved construction meeting the fire protection requirements for the assembly.*

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- There were several ceiling tiles missing from the suspended ceiling in different areas throughout the school. Replace all missing ceiling tiles throughout the building.

**Fire-Resistance-Rated Construction - Opening Protectives - 2015 International Fire Code - 703.2:**

*Opening protectives shall be maintained in an operative condition in accordance with NFPA 80...Fire doors and smoke barrier doors shall not be blocked or obstructed, or otherwise made inoperable. Fusible links shall be replaced promptly whenever fused or damaged. Fire door assemblies shall not be modified.*

- Remove kick-down devices, wedges, and other unapproved hold-open objects from all fire doors (with self-closing devices) throughout the school. These doors may only be equipped with an electromagnetic hold-open device connected to the building's fire alarm system.

**Fire Extinguisher - Unobstructed and Unobscured - 2015 International Fire Code - 906.6:**

*Portable fire extinguishers shall not be obstructed or obscured from view. In rooms or areas in which visual obstruction cannot be completely avoided, means shall be provided to indicate the locations of extinguishers.*

- At the time of the inspection, there were garbage barrels in front of the fire extinguisher cabinets in the Wood Shop. Maintain unobstructed access to extinguishers.

**Portable Fire Extinguishers Hangers and Brackets - 2015 International Fire Code - 906.7:**

*Hand-held portable fire extinguishers, not housed in cabinets, shall be installed on the hangers or brackets supplied. Hangers or brackets shall be securely anchored to the mounting surface in accordance with the manufacturer's installation instructions*

- A fire extinguisher was sitting in a box in the Wood Shop Paint Booth. Remount or rehang this extinguisher so the bottom is at least four inches from the floor and the top is no higher than five feet from the floor.

**Means of Egress Illumination - Emergency Power - 2015 International Fire Code - 1008.3:**

*1008.3.1 General. In the event of power supply failure in rooms and spaces that require two or more means of egress an emergency electrical system shall automatically illuminate all of the following areas:*

1. Aisles

2. *Corridors.*
3. *Exit access stairways and ramps.*

- Install battery backup emergency lighting in the Weight Room.

**Fire Alarm and Detection Systems - Power Supply - 2015 International Fire Code - 907.6.2:**

*The primary and secondary power supply for the fire alarm system shall be provided in accordance with NFPA 72.*

*NFPA 72 National Fire Alarm And Signaling Code, 2013 Edition, 10.6.5.2-10.6.5.2.5 Circuit Identification and Accessibility. The location of the branch circuit disconnecting means shall be permanently identified at the control unit. System circuit disconnecting means shall be permanently identified as to its purpose in accordance with the following:*

- (1) "FIRE ALARM" for fire alarm systems*
- (2) "EMERGENCY COMMUNICATIONS" for emergency communications systems*
- (3) "FIRE ALARM/ECS" for combination fire alarm and emergency communications systems*

*For fire alarm and/or signaling systems, the circuit disconnection means shall have a red marking. The red marking shall not damage the overcurrent protective devices or obscure the manufacturer's markings. The circuit disconnecting means shall be accessible only to authorized personnel.*

*10.6.5.4 Circuit Breaker Lock. Where a circuit breaker is the disconnecting means, a listed breaker locking device shall be installed.*

*10.6.10.1 Marking. Batteries shall be marked with the month and year of manufacture using the month/year format. Where the battery is not marked with the month/year by the manufacturer, the installer shall obtain the date-code and mark the battery with the month/year of battery manufacture.*

- Write the location (i.e. the electrical panel, its location, and breaker number) of the fire alarm breaker in the main fire alarm control unit.
- The dedicated fire alarm circuit breaker was not mechanically protected. Protect the fire alarm breaker with an approved breaker locking device.
- The batteries in the fire alarm control unit did not appear to be dated. Date these batteries with the month and year of manufacture.

**Fire Alarm Testing - 2015 International Fire Code - 907.8.2:**

*Testing shall be performed in accordance with the schedules in NFPA 72 or more frequently where required by the fire code official. Records of testing shall be maintained.*

*NFPA 72 National Fire Alarm And Signaling Code, 2013 Edition, 14.3.1 & 14.4.3.2:*

*14.3.1 Unless otherwise permitted by 14.3.2, visual inspections shall be performed in accordance with the schedules in Table 14.3.1 or more often if required by the authority having jurisdiction.*

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*14.4.3.2 Systems and associated equipment shall be tested according to Table 14.4.3.2*

*14.4.4 Unless otherwise permitted by other sections of this Code, testing shall be performed in accordance with the schedules in Table 14.4.3.2 or more often if required by the authority having jurisdiction.*

Visual Inspection - Semiannual

2. *Control Equipment:*

- (a) *Fire alarm systems monitored for alarm, supervisory, and trouble signals*
- (5) *Trouble signals*

5. *In-building fire emergency voice/alarm communications equipment*

9. *Batteries*

- (b) *Nickel-cadmium*
- (d) *Sealed lead-acid*

11. *Remote annunciators*

14. *Transient suppressors*

17. *Initiating devices*

- (a) *Air sampling*
- (b) *Duct detectors*
- (c) *Electromechanical releasing devices*
- (d) *Fire extinguishing system(s) or suppression system(s) switches*
- (e) *Manual fire alarm boxes*
- (f) *Heat detectors*
- (i) *Smoke detectors (excluding one- and two-family dwellings)*
- (j) *Projected beam smoke detectors*

19. *Combination systems*

- (a) *Fire extinguisher electronic monitoring device/systems*
- (b) *Carbon monoxide detectors/systems*

20. *Fire alarm control interface and emergency control function interface*

21. *Guard's tour equipment*

22. *Notification appliances*

- (a) *Audible appliances*
- (b) *Audible textual notification appliances*
- (c) *Visible appliances*
  - (1) *General*
  - (2) *Candela rating*

23. *Exit marking audible notification appliances*

Testing - Semiannual

9. *Battery tests*

- (a) *Lead-acid type*
  - (4) *Load voltage test*
  - (5) *Specific gravity*
- (b) *Nickel-cadmium type*
  - (4) *Load voltage test*
- (c) *Sealed lead-acid type*
  - (4) *Load voltage test*

17. *Initiating devices*

- (f) *Radiant energy fire detectors*
- (k) *Mechanical, electrosonic, or pressure-type waterflow device*

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- NFPA 72 requires semiannual visual inspections of fire alarm system components and testing of fire alarm control unit batteries. An annual fire alarm inspection schedule is currently being followed for the facility. Schedule semiannual fire alarm inspections/testing with an approved fire alarm contractor and maintain inspection documentation for review by this office.

## **Smoke Detector Sensitivity - 2015 International Fire Code - 907.8.3:**

*Smoke detector sensitivity shall be checked within one year after installation and every alternate year thereafter.*

- Verify with an approved fire alarm contractor that smoke detector sensitivity testing is being conducted every two years. If it is not, schedule this inspection. Maintain the testing documentation for further review by this office.

**Fire Alarm System:** Hawkeye Alarm & Signal Company – 12/27/2016 (Sensitivity – No documentation)

**Hood System:** Superior Fire Protection Equipment – 08/03/2016 & 12/23/2016

**Fire Extinguishers:** Hawkeye Fire & Safety Company – 08/2016 (Monthly inspections – Documented)

**Emergency Lights:** 30-second monthly test – Documented; 90-minute annual test – See above

**Emergency Drills:** Fire – 02/19/2016, 09/13/2016, & 10/11/2016; Tornado – 09/20/2016 & 10/20/2016

Provide a written plan of correction, including how each deficiency will be corrected and its expected completion date, to Christina Smith at [smith@dps.state.ia.us](mailto:smith@dps.state.ia.us). The plan of correction may also be returned by mail to 4425 South Washington Avenue, Mason City, IA 50401.

**The plan of correction shall be returned within 30 calendar days from receipt of report.**

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If you have any questions, please contact me at 641-530-7596.

**INSPECTOR:** *Christina Smith*

**SUPERVISOR: Acting Special Agent in Charge Dan Wood**