



NOTICE OF VIOLATIONS AND ORDERS

October 15, 2014

CUST ID No.: 1299442

TRANSACTION No.: 2465040

Site ID No.: 608020 River Ridge Elementary / High School

Phone: (608) 438-6331

SITE ADDRESS: 11165 Cty Hwy P
Grant County, Village of Patch Grove
Site Contact: Lee Pritzl

ANN JURKOWSKI
PO BOX 594
RIPON WI 54971

Contact Phone: (608) 994-2715

Contact Fax:

Contact E-mail: pritzlle@rrsd.k12.wi.us

Regulated Objects:

Facility: 739979 RIVER RIDGE ELEMENTARY / HIGH SCHOOL
11165 CTY HWY P
PATCH GROVE 53817

Nature of Complaint Summary: Indoor air quality

Object Type: Complaint Regulated Object ID No.: 1476727

Last Inspection Date: September 29, 2014

INVESTIGATION NOTES:

This DEPARTMENT ORDER is issued as a result of an inspection on the above referenced site.

The following violations were revealed:

1. Code Section Violated: **101.11 Employer's duty to furnish safe employment and place.**

101.11(1) Every employer shall furnish employment which shall be safe for the employees therein and shall furnish a place of employment which shall be safe for employees therein and for frequenters thereof and shall furnish and use safety devices and safeguards, and shall adopt and use methods and processes reasonably adequate to render such employment and places of employment safe, and shall do every other thing reasonably necessary to protect the life, health, safety, and welfare of such employees and frequenters. Every employer and every owner of a place of employment or a public building now or hereafter constructed shall so construct, repair or maintain such place of employment or public building as to render the same safe.

101.11(2)

- 1.** 101.11(2)(a) No employer shall require, permit or suffer any employee to go or be in any employment or place of employment which is not safe, and no such employer shall fail to furnish, provide and use safety devices and safeguards, or fail to adopt and use methods and processes reasonably adequate to render such employment and place of employment safe, and no such employer shall fail or neglect to do every other thing reasonably necessary to protect the life, health, safety or welfare of such employees and frequenters; and no employer or owner, or other person shall hereafter construct or occupy or maintain any place of employment, or public building, that is not safe, nor prepare plans which shall fail to provide for making the same safe.

Conditions Found: It is reasonable that the violation of code SPS 364.0313(1) as referenced in Regulated Objects Transaction No. 2466139 could contribute to the health symptoms described by some of the employees at the River Ridge Elementary and High School buildings.

Violations of State of Wisconsin Electrical code SPS 316 as reported in Regulated Objects Transaction No. 2465407.

Action Required: Compliance with Regulated Objects Transaction No.'s 2466139 & 2465407 as listed below.

Transaction No. 2466139

SPS 361.30(3) - Building plans were not submitted for review and conditional approval by the Department prior to commencing construction on the special education and guidance offices as required. Submit four sets of building plans (or one plan set and three additional index sheets), with one set of calculations and specifications, a completed SBD-118 form, a copy of orders as issued by a Dept. representative from the field, and fees to this Department for review and approval. If the building is over 50,000 cubic feet in total volume, all plans, calculations and specifications shall be properly stamped, signed and dated by a WI-registered architect or engineer.

SPS 361.30 (3) - Submit four (4) sets of Heating, ventilating and air conditioning plans for the special education and guidance offices, with one (1) set of calculations all of which are to be properly stamped, signed and dated, a completed SBD-118 form and fees to this Department for review and approval.

ICC/ANSI A117.1 Sec. 702.1 - Visual alarms shall be provided per IBC 907.9.1.1 in all public and common use areas of any building equipped with an alarm system including, but not limited to corridors, meeting and conference rooms, classrooms, toilet and bathrooms, lobbies, dressing and locker rooms, cafeterias, treatment and examination rooms, photocopy rooms, file rooms and any other common use area that a person is likely to be working alone. Visual alarms shall be installed in accordance with NFPA 72 per the requirements of Section 702.1.

IBC 2603.4 - Provide an approved 15 minute thermal barrier between foam plastic and the interior of buildings. A 1/2" gypsum board or equivalent shall be used, unless an exception can be met.

- Building & HVAC plans shall be submitted to this department for review and approval for the construction of the special education/guidance offices. Offices and conference areas were constructed without obtaining plan review approval. These rooms lack required ventilation and have exposed foam insulation above the ceiling.

IMC/SPS 364.0313(1) - Every heating, ventilating and air-conditioning system shall be balanced upon installation. The person or agency responsible for balancing of the ventilating system shall document in writing the amount of outdoor air being provided and distributed for the building occupants, exhausts, and any other specialty ventilation. The document shall be retained at the site and shall be made available to the department upon request. **Several areas of the building appear to lack ventilation, and damage to the ductwork was observed in the mechanical rooms. Repairs shall be made to the ductwork and a balance and test report shall be provided for the areas served.**

IMC 603.4/Comm. 64.34(1) – All metallic ducts shall be constructed as specified in the SMACNA HVAC Duct Construction Standards-Metal & Flexible. The flex duct coming off of the air conditioner in the attic shall be tight (or as short as possible) for proper air flow.

IFC 315.2.2 – Combustible material shall not be stored in boiler rooms, mechanical rooms or electrical equipment rooms. Storage shall be removed from all of the mechanical rooms.

COMM 51.02(19)(a) - The attic of this building is required to be divided into areas not greater than 3,200 square feet. Panels for access openings in compartment walls shall be equipped with self-closing devices and shall normally be kept closed. **COMM 51.02(18)(a)** Provide access to each attic compartment by means of 20 inch by 30 inch openings.

IND 64.08(4) – Exhaust vents shall be ducted to the exterior of the building. The exhaust fan in the kitchen shall discharge directly to the exterior.

- There is an additional duct in the attic – it is unknown what area this serves or if it's exhaust or supply. If it is exhaust, it shall be ducted to the exterior of the building. If it supplies air and is taking that air from the attic space, the attic space is considered a plenum and therefore, the attic would be required to be noncombustible. Please determine the use of the duct, so proper code compliance can be achieved.

Transaction No. 2465407

* **NEC 700.3 Tests and Maintenance:** Several battery back-up emergency lights are not in working order. A test shall be conducted for the emergency lighting and exit lights. All non functional emergency lights, batteries and exit lights shall be promptly repaired. A written record of the emergency test shall be submitted to State Electrical Inspector Anthony Tadysak and kept on site of the facility.

* **NEC 700.3 Tests and Maintenance:** A test of the emergency generator shall be conducted and witnessed by State of Wisconsin Electrical Inspector Anthony Tadysak. The generator test shall comply with NEC 700.12

* **NEC 240.24 & NEC 110.26(A)(3):** Electrical Panels not allowed in the attic of the school. All electrical panels installed in the attic of the school shall be relocated to a readily accessible location with working clearances complying with NEC 110.26 & NEC 240.24

* **SPS 316.110 & NEC 450.9, 450.13:** Electrical Transformers not allowed in the attic of the school. All Electrical Transformers installed in the attic shall be relocated and installed in accordance with the manufactures installation instructions.

* **NEC Article 334 Type NM Romex Cable:** All NM Romex cable installed in the school and school attic shall be reworked per NEC Article 334.

* **NEC 400.8 Extension Cords:** Extension cords are being used in the attic of the school as a substitute for permanent wiring. It shall be necessary to remove all extension cords in the attic and replace with a recognized NEC chapter 3 wiring method.

* **NEC Article 362 ENT:** All ENT installed in the school and school attic shall be reworked per NEC Article 362.

* **NEC Article 352 PVC:** All PVC installed in the school and school attic shall be reworked per NEC Article 352.

* **NEC 300.22 Plenums:** All electrical wiring, data wiring and fire alarm wiring install in spaces for environmental air (Plenums) shall be Plenum rated or comply with the allowable wiring methods in NEC 300.22(C)(1). It was noted on the inspection that several areas above the schools drop ceilings are being used as a plenum and several wiring methods being used do not comply with code or are not plenum rated.

* **NEC 110.12 Unused openings:** All unused electrical openings in electrical boxes and equipment shall be closed. All electrical boxes shall be installed with a cover to conceal the electrical wiring.

* **NEC 408.4:** Every circuit and circuit modification shall be legibly identified as to its clear, evident, and specific purpose or use. It was noted on the inspection that several electrical circuits are not identified in the electrical panels throughout the school.

* **NEC 400.8 Flexible cords, uses not permitted:** Flexible cords are not permitted in the suspended ceilings of the school. It was noted on the inspection that projectors have been installed in the classrooms. The 120-volt cords for the projectors have been run through holes in the suspended ceiling and are located above the suspended ceiling.

* **NEC 314.27(C) Electrical boxes for ceiling fans:** All electrical boxes used for ceiling fan support shall be listed and suitable for this purpose.

* **NEC 110.26 Spaces about electrical equipment:** Access and working space shall be provided and maintained about all electrical equipment to permit ready and safe operation and maintenance of such equipment. The working clearances for all electrical panels shall comply with NEC Table 110.26(A)(1)& (2).

* **NEC 250.30 Grounding of Transformers:** All Transformers in the school shall be grounded to code. It was observed on the inspection that some transformers are not grounded or are not properly grounded.

* **NEC 240.24 Circuit breaker height restrictions:** Circuit breakers shall be installed not more than 6'7" above the floor. In the Administration room of the school, an electrical panel was installed higher than 6'7". Rework to code.


Please note: State of Wisconsin Electrical code SPS 316.010: Any equipment or electrical installation known to be defective so as to endanger life or property shall be promptly repaired, permanently disconnected, or isolated until repairs can be made.

The above violations shall be corrected by State of Wisconsin Licensed Electricians and the corrections shall be supervised by A State of Wisconsin Master Electrician.

You are hereby ordered to have the installation corrected to conform to the indicated provisions of the Wisconsin Administrative Code and/or Wisconsin Statutes. This installation shall be corrected by the compliance date noted, and upon correction of violations I must be notified. If you fail to comply, this order is enforceable in circuit court pursuant to s. 101.02(13), Stats., with forfeitures ranging from \$10 to \$100 per day for each violation

If you have any questions regarding this matter, please feel free to contact me at the number listed below.

Ch. 101.02(6)(e) stats. Any employer or other person interested either because of ownership in or occupation of any property affected by any such order, or otherwise, may petition for a hearing on the reasonableness of any order of the department in the manner provided in this subchapter.

INSPECTOR NAME: Ann Jurkowski	INVESTIGATION DATE: 09/29/2014
PHONE/WORK HOURS: (608) 438-6331 , M-F	
E-MAIL: ann.jurkowski@wisconsin.gov	
SIGNATURE: 	DATE: 10/15/14
	COMPLIANCE DATE: 12/22/14

cc: School District