

Minutes
Mechanical Board of Appeals and Examiners
Building Services Conference Room
August 14, 2012, 12 noon

Members Present

Ryan Van Der Bill, Jack Zimmer, Greg Bertsch, Mark Lamb and Mark Weber

Guests Present

Ron Bell, John Grunewald

Approval of Minutes of Last Meeting

A motion was made by Mr. Bertsch and a second was made by Mr. Zimmer to approve the minutes of July 11, 2012. Yeses, 5. Noes, 0.

Unfinished Business

1. Review the Canadian Code for combustion air sizing. Tabled until the September meeting.

New Business

1. The Mr. Denny presented the board with the proposed changes to the 2012 International Mechanical Code and the International Fuel Gas Code.

- **ENVIRONMENTAL AIR:** Air that is conveyed to or from occupied areas through ducts which are not part of the heating or air-conditioning system, such as ventilation for human usage, domestic kitchen range exhaust, bathroom exhaust, domestic clothes dryer exhaust and parking garage exhaust.

Mechanical board recommendation: Make no changes to this section.

- **SOURCE CAPTURE SYSTEM:** A mechanical exhaust system designed and constructed to capture air contaminants at their source and to exhaust such contaminants to the outdoor atmosphere.

Mechanical board recommendation: Make no changes to this section.

- **301.3 Identification.** Each length of pipe and tubing and each pipe fitting utilized in a mechanical system shall bear the identification of the manufacturer.

Mechanical board recommendation: Delete this section from the code.

- **301.4 Plastic pipe, fittings and components.** Plastic pipe, fittings and components shall be third-party certified as conforming to NSF 14.

Mechanical board recommendation: Delete this section from the code.

- **301.5 Third-party testing and certification.** Piping, tubing and fittings shall comply with the applicable referenced standards, specifications and performance criteria of this code and shall be identified in accordance with Section 301.3. Piping, tubing and fittings shall either be tested by an approved third-party testing agency or certified by an approved third party certification agency.

Mechanical board recommendation: Delete this section from the code.

- **301.9 Label information**

4. Electric comfort heating appliances: electric rating in volts, amperes and phase; Btu/h (W) output rating; individual marking for each electrical component in amperes or watts, volts and phase; and required clearances from combustibles.

Mechanical board recommendation: Delete this section from the code.

- **306.1 Access for maintenance and replacement.** Appliances shall be accessible for inspection, service, repair and replacement without disabling the function of a fire-resistance- rated assembly or removing permanent construction, other appliances, venting systems or any other piping or ducts not connected to the appliance being inspected, serviced, repaired or replaced. A level working space at least 30 inches deep and 30 inches wide (762 mm by 762 mm) shall be provided in front of the control side to service an appliance.

306.2 Appliances in rooms. Rooms containing appliances shall be provided with a door and an unobstructed passageway measuring not less than 36 inches (914 mm) wide and 80 inches (2032 mm) high.

Mechanical board recommendation: Table until the September meeting.

- **306.5 Equipment and appliances on roofs or elevated structures.** Where equipment requiring access or appliances are located on an elevated structure or the roof of a building such that personnel will have to climb higher than 16 feet (4877 mm) above grade to access such equipment or appliances, an interior or exterior means of access shall be provided. Such access shall not require climbing over obstructions greater than 30 inches (762 mm) in height or walking on roofs having a slope greater than 4 units vertical in 12 units horizontal (33-percent slope). Such access shall not require the use of portable ladders. Where access involves climbing over parapet walls, the height shall be measured to the top of the parapet wall.
2. Ladders shall have rung spacing not to exceed 14 inches (356 mm) on center. **The uppermost rung shall be a maximum of 24 inches (610 mm) below the upper edge of the roof hatch, roof or parapet, as applicable.**
7. **Climbing clearance. The distance from the centerline of the rungs to the nearest permanent object on the climbing side of the ladder shall be a minimum of 30 inches (762 mm) measured perpendicular to the rungs.**

This distance shall be maintained from the point of ladder access to the bottom of the roof hatch. A minimum clear width of 15-inches (381 mm) shall be provided on both sides of the ladder measured from the midpoint of and parallel with the rungs except where cages or wells are installed.

8. Landing required. The ladder shall be provided with a clear and unobstructed bottom landing area having a minimum dimension of 30 inches (762 mm) by 30 inches (762 mm) centered in front of the ladder.

10. Access to ladders shall be provided at all times.

Mechanical board recommendation: Make one addition to this section, as outlined below.

11. When a new roof hatch is being used to access equipment or appliances on a roof or elevated structure the handle or release must be on the same side of the roof hatch as the ladder or within 18" of the ladder.

- **SECTION 308 CLEARANCE REDUCTIONS. 308.5 Labeled assemblies.**
The allowable clearance reduction shall be based on an approved reduced clearance protective assembly that is listed and labeled in accordance with UL 1618.

Mechanical board recommendation: Make no changes to this section.

- **401.2 Ventilation required.** Every occupied space shall be ventilated by natural means in accordance with Section 402 or by mechanical means in accordance with Section 403. Where the air infiltration rate in a dwelling unit is less than 5 air changes per hour when tested with a blower door at a pressure of 0.2-inch water column (50 Pa) in accordance with Section 402.4.1.2 of the International Energy Conservation Code, the dwelling unit shall be ventilated by mechanical means in accordance with Section 403.

Mechanical board recommendation: Make no changes to this section.

- **401.4 Intake opening location.** Air intake openings shall comply with all of the following:
1. Intake openings shall be located a minimum of 10 feet (3048 mm) from lot lines or buildings on the same lot.
 2. Mechanical and gravity outdoor air intake openings shall be located not less than 10 feet (3048 mm) horizontally from any hazardous or noxious contaminant source, such as vents, streets, alleys, parking lots and loading docks, except as specified in Item 3 or Section 501.2.1. Outdoor air intake openings shall be permitted to be located less than 10 feet (3048 mm) horizontally from streets, alleys, parking lots and loading docks provided that the openings are located not less than 25 feet (7620 mm) vertically above such locations. Where openings front on a street or public way, the distance shall be measured from the closest edge of the street or public way.

Mechanical board recommendation: Delete the changes to the section and continue enforcing the 2009 IMC.

- **403.3 Minimum ventilation rates for nail salons. Table 403.3**
h. For nail salons, each nail station shall be provided with a *source capture system* capable of exhausting not less than 50 cfm per station.
Commentary: Footnote “h” to table 403.3 has been modified to require nail salons to have **source capture system** at each nail station. Based on the definition of source capture system, the exhaust from a station in a nail salon is required to capture the air contaminants at their source and terminate them to the outdoor atmosphere.
Mechanical board recommendation: Make no changes to this section.

- **SECTION 404 ENCLOSED PARKING GARAGES 404.1 Enclosed parking garages.** Mechanical ventilation systems for enclosed parking garages shall be permitted to operate intermittently in accordance with Item 1, Item 2 or both.
- 1. The system shall be arranged to operate automatically upon detection of vehicle operation or the presence of occupants by approved automatic detection devices.
2. The system shall be arranged to operate automatically by means of carbon monoxide detectors applied in conjunction with nitrogen dioxide detectors. Such detectors shall be installed in accordance with their manufacturers’ recommendations.

Mechanical board recommendation: Make no changes to this section as written. Tabled a local amendment: for requiring parts per million (ppm) requirements for carbon monoxide and nitrogen dioxide to control the exhaust system.

Adjournment

A motion was made by Mr. Lamb and a second was made by Mr. Weber to adjourn the meeting at 1:05 p.m. Yeses, 5. Noes, 0.

***An audio tape of the meeting will be available at the City of Sioux Falls.**

Mike Denny
Secretary