307.1-Work Group 2.2-Previously work group item 2.2. This proposal takes a long “exception list” and turns the language into a positive statement list of hazardous material activities that would not be classified as a High Hazard Group occupancy.

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307.1, 307.1.1 (new) and 307.1.2

Proponent: S. Bajnai, Chesterfield County, VA, ICC Building Code Action Committee

Revise as follows:

SECTION 307
HIGH-HAZARD GROUP H

[F] 307.1 High-hazard Group H. High-hazard Group H occupancy includes, among others, the use of a building or structure, or a portion thereof, that involves the manufacturing, processing, generation or storage of materials that constitute a physical or health hazard in quantities in excess of those allowed in control areas complying with Section 414, based on the maximum allowable quantity limits for control areas set forth in Tables 307.1(1) and 307.1(2). Hazardous occupancies are classified in Groups H-1, H-2, H-3, H-4 and H-5 and shall be in accordance with this section, the requirements of Section 415 and the International Fire Code. Hazardous materials stored, or used on top of roofs or canopies shall be classified as outdoor storage or use and shall comply with the International Fire Code.

Exceptions: The following [F] 307.1.1 Groups other than Group H. The storage, use or handling of hazardous materials in compliance with one or more of the following items shall not be classified as Group H, but shall be classified as the occupancy that they most nearly resemble:

1. Buildings and structures occupied for the application of flammable finishes, provided that such buildings or areas conform to the requirements of Section 416 and the International Fire Code.

2. Wholesale and retail sales and storage of flammable and combustible liquids in mercantile occupancies conforming to the International Fire Code.

3. Closed piping system containing flammable or combustible liquids or gases utilized for the operation of machinery or equipment.

4. Cleaning establishments that utilize combustible liquid solvents having a flash point of 140°F (60°C) or higher in closed systems employing equipment listed by an approved testing agency, provided that this occupancy is separated from all other areas of the building by 1-hour fire barriers constructed in accordance with Section 707 or 1-hour horizontal assemblies constructed in accordance with Section 711, or both.

5. Cleaning establishments that utilize a liquid solvent having a flash point at or above 200°F (93°C).

7. Refrigeration systems.

8. The storage or utilization of materials for agricultural purposes on the premises.

9. Stationary batteries utilized for facility emergency power, uninterruptable power supply or telecommunication facilities, provided that the batteries are provided with safety venting caps and ventilation is provided in accordance with the International Mechanical Code.

10. Corrosives shall not include personal or household products in their original packaging used in retail display or commonly used building materials.

11. Buildings and structures occupied for aerosol storage shall be classified as Group S-1, provided that such buildings conform to the requirements of the International Fire Code.

12. Display and storage of nonflammable solid and nonflammable or noncombustible liquid hazardous materials in quantities not exceeding the maximum allowable quantity per control area in Group M or S occupancies complying with Section 414.2.5.

13. The storage of black powder, smokeless propellant and small arms primers in Groups M and R-3 and special industrial explosive devices in Groups B, F, M and S, provided such storage conforms to the quantity limits and requirements prescribed in the International Fire Code.

[F] 307.1.1 2 Hazardous materials. Hazardous materials in any quantity shall conform to the requirements of this code, including Section 414, and the International Fire Code.

Reason: This proposal takes a long “exception list” and turns the language into a positive statement list of hazardous material activities that would not be classified as a High Hazard Group occupancy.
414.3 - Work Group 2.7 - Previously work group item 2.7. This proposal clarifies that ventilation may be required when hazardous materials are handled regardless of whether the activity is located in a H Group. The proposal also eliminates language that is covered by the IMC for the design and installation of the exhaust systems.

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[F] 414.3

Proponent: S. Bajnai, Chesterfield County, VA, ICC Building Code Action Committee

Revise as follows:

[F] 414.3 Ventilation. Rooms, areas or spaces of Group H in which explosive, corrosive, combustible, flammable or highly toxic dusts, mists, fumes, vapors or gases are or may be emitted due to the processing, use, handling or storage of materials shall be mechanically ventilated as required by this code, the International Fire Code and the International Mechanical Code.

Ducts conveying explosives or flammable vapors, fumes or ducts shall extend directly to the exterior of the building without entering other spaces. Exhaust ducts shall not extend into or through ducts and plenums.

Exception: Ducts conveying vapor or fumes having flammable constituents less than 25 percent of their lower flammable limit (LFL) are permitted to pass through other spaces.

Emissions generated at workstations shall be confined to the area in which they are generated as specified in the International Fire Code and the International Mechanical Code.

The location of supply and exhaust openings shall be in accordance with the International Mechanical Code. Exhaust air contaminated by highly toxic material shall be treated in accordance with the International Fire Code.

A manual shutoff control for ventilation equipment required by this section shall be provided outside the room adjacent to the principal access door to the room. The switch shall be of the break-glass type and shall be labeled: VENTILATION SYSTEM EMERGENCY SHUTOFF.

Reason: This proposal clarifies that ventilation may be required when hazardous materials are handled regardless of whether the activity is located in a H Group. The proposal also eliminates language that is covered by the IMC for the design and installation of the exhaust systems.

Note that this section does not trigger the installation of the exhaust systems, it refers to the IBC, IFC and IMC for those triggers such as: IBC [F] 415.8.2.7, IBC [F] 415.10.1.8, IBC [F] 415.10.5.8, IMC 502.1, IMC 502.2 – IMC 502.17, IFC 2105.2.3, IFC 2106.3.3, IFC 5003.8.4.2, IFC 5003.8.5.2, and IFC 5004.3 as a few examples.
414.7 - Work Group 2.8 - Previously work group item 2.8. Current Section 414.5 only applies to Group H occupancies. For clarification the section is proposed to be relocated to Section 415 which is the portion of the IBC that applies to H Group occupancies.

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414.7, 414.7.1, 414.7.2, 414.7.3, 415.5 (new), 415.5.1 (new), 415.5.2 (new), 415.5.3 (new)

Proponent: S. Bajnai, Chesterfield County, VA, ICC Building Code Action Committee

Revise as follows:

[F] 444.7 415.5 Emergency alarms. Emergency alarms for the detection and notification of an emergency condition in Group H occupancies shall be provided as set forth herein.

[F] 444.7.1 415.5.1 Storage. An approved manual emergency alarm system shall be provided in buildings, rooms or areas used for storage of hazardous materials. Emergency alarm-initiating devices shall be installed outside of each interior exit or exit access door of storage buildings, rooms or areas. Activation of an emergency alarm-initiating device shall sound a local alarm to alert occupants of an emergency situation involving hazardous materials.

[F] 444.7.2 415.5.2 Dispensing, use and handling. Where hazardous materials having a hazard ranking of 3 or 4 in accordance with NFPA 704 are transported through corridors, interior exit stairways or ramps, or exit passageways there shall be an emergency telephone system, a local manual alarm station or an approved alarm-initiating device at not more than 150-foot (45 720 mm) intervals and at each exit and exit access doorway throughout the transport route. The signal shall be relayed to an approved central, proprietary or remote station service or constantly attended on-site location and shall initiate a local audible alarm.

[F] 444.7.3 415.5.3 Supervision. Emergency alarm systems shall be supervised by an approved central, proprietary or remote station service or shall initiate an audible and visual signal at a constantly attended on-site location.

(Renumber existing [F] 414.5 through [F] 415.10)

Reason: The scope of Section 414 applies to all buildings and structures where hazardous materials are present.

[F] 414.1 General. The provisions of Sections 414.1 through 414.7 shall apply to buildings and structures occupied for the manufacturing, processing, dispensing, use or storage of hazardous materials.

However, current Section 414.5 only applies to Group H occupancies. For clarification the section is proposed to be relocated to Section 415 which is the portion of the IBC that applies to H Group occupancies.