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Governor Scott Walker Secretary Dave Ross

BUILDING CODE COUNCIL MEETING
Room 121A, 1400 East Washington Avenue, Madison
Contact: Dan Smith (608) 261-4463
January 5, 2016

The following agenda describes the issues that the Council plans to consider at the meeting. At the time of the meeting, items may be removed from the agenda. Please consult the resulting meeting minutes for a description of the recommendations of the Council.

AGENDA

9:00 A.M.

CALL TO ORDER – ROLL CALL

- A. Adoption of Agenda (1)**
- B. Approval of Minutes of December 1, 2015 (2)**
- C. Department Update**
- D. Review of Partial Preliminary Draft Rule Language (3-33)**
- E. Significant Changes to the IFC Chapters 10-67 and Appendices (34-53)**
 - 1) Code Revisions
 - 2) Wisconsin Considerations
- F. Significant Changes to the IMC Chapters 1-15 and Appendices as Time Allows (54-65)**
 - 1) Code Revisions
 - 2) Wisconsin Considerations
- G. Public Comments**
- H. Future Business**
- I. Adjournment**

NEXT MEETING DATE FEBRUARY 2, 2016

**COMMERCIAL BUILDING CODE COUNCIL
MEETING MINUTES
December 1, 2015**

PRESENT: Kevin Bierce, David Enigl, Steven Howard, Steven Klessig, Samuel Lawrence, Irina Ragozin, Corey Rockweiler, Peter Scheuerman

EXCUSED: Hunter Bohne, Michael Mamayek

STAFF: Dan Smith, Rules Coordinator; Jason Hansen, Building Plan Reviewer; Robin Zentner, Bureau of Field Services Bureau Director; and Kimberly Wood, Program Assistant Supervisor – Advanced

CALL TO ORDER

Samuel Lawrence, Vice Chair, called the meeting to order at 9:15 a.m. A quorum of nine (9) members was confirmed.

ADOPTION OF AGENDA

MOTION: David Enigl moved, seconded by Irina Ragozin, to adopt the agenda as published. Motion carried unanimously.

APPROVAL OF MINUTES

MOTION: Irina Ragozin moved, seconded by David Enigl, to approve the minutes of October 6, 2015 as published. Motion carried unanimously.

(Steve Klessig left the meeting at 1:50 p.m. and reconnected by phone at 2:00 p.m.)

ADJOURNMENT

MOTION: Corey Rockweiler moved, seconded by Peter Scheuerman, to adjourn the meeting. Motion carried unanimously.

The meeting adjourned at 2:59 p.m.

Partial Preliminary Proposed Draft Language

SECTION 1. SPS 361.02 (3) (h) is amended to read:

SPS 361.02 (3) (h) That portion of ~~or space~~ a live/work unit within a one- or 2-family dwelling in which a home occupation is located.

SECTION 2. SPS 361.02 (4) (intro.) is amended to read:

SPS 361.02 (4) In this ~~section~~ code, “~~home occupation~~ home-based business” means any business, profession, trade or employment conducted in a person’s dwelling unit, that may involve the person’s immediate family or household and a maximum of one other unrelated person, but does not involve any of the following:

SECTION 3. SPS 361.02 (4) (b) (Note) is created to read:

SPS 361.02 (4) (b) Note: A dwelling unit containing a home-based business is referred to as a “live/work unit” which has the meaning given in s. SPS 362.0202 (2) (g).

(From: Council recommendation from 6.2.15)

SECTION 4. SPS 361.03 (5) (a) 1. is amended to read:

SPS 361.03 (5) (a) Except as provided in par. (b) and where allowed under s. 101.02 (7r) Stats., pursuant to s. ~~101.02 (7)~~ 101.02 (7r), Stats., a no city, village, or town or local board of health may enact and or enforce additional or more restrictive an ordinance that establishes minimum standards for constructing, altering, or adding to public buildings and or buildings that are places of employment, provided the standards do not conflict with unless that ordinance strictly conforms to this code.

(From: Industry Services recommendation #59)

SECTION 5. SPS 361.03 (13) (b) is amended to read:

SPS 361.03 (13) (b) Existing bleachers, grandstands and folding and telescopic seating shall comply with ICC ~~300-02~~ 300-12.

(From: Industry Services recommendation #1)

SECTION 6. SPS 361.04 (7) is amended to read:

SPS 361.04 (7) “IEBC” and “International Existing Building Code” mean the ~~2006 edition~~ of the International Existing Building Code®, as adopted under s. SPS 361.05 and modified in this code.

(From: Editorial clarification: current adopted editions are listed in SPS 361.05)

SECTION 7. SPS 361.04 (16) is created to Read:

SPS 361.04 (16) “Volume” The volume of a building is the actual cubic space enclosed within the outer surfaces of the outside or enclosing walls and contained between the outer surfaces of the roof and the underside of the lowest floor. The volume of structures without enclosing walls (canopies, roofed shelters and similar structures) will be computed by projecting imaginary vertical planes as the enclosing walls at the outer surface of the exterior supports or columns. For cantilevered structures with interior supports, the imaginary vertical planes will be projected at the farthest roof projection or overhang. The definition of volume requires the cube of dormers, penthouses, vaults, pits, enclosed porches and other enclosed appendages to be included as a part of the cube of the building. It does not include the cube of courts or light shafts, open at the top, or the cube of outside steps, cornices, parapets, or open decks porches or loggias.

(From: Industry Services recommendation #28 and council recommendation from 9.1.2015)

SECTION 8. SPS 361.05 (1) to (5) and (Note 3) are amended to read:

SPS 361.05 (1) IBC. The *International Building Code*® – ~~2009~~ 2015, subject to the modifications specified in this chapter and ch. SPS 362 is hereby incorporated by reference into this code.

(2) IECC. The *International Energy Conservation Code*® – ~~2009~~ 2015, subject to the modifications specified in this chapter and ch. SPS 363 is hereby incorporated by reference into this code.

(3) IMC. The *International Mechanical Code*® – ~~2009~~ 2015, subject to the modifications specified in this chapter and ch. SPS 364 is hereby incorporated by reference into this code.

(4) IFGC. The *International Fuel Gas Code*® – ~~2009~~ 2015, subject to the modifications specified in this chapter and ch. SPS 365 is hereby incorporated by reference into this code.

(5) IEBC. The *International Existing Building Code*® – ~~2009~~ 2015, subject to the modifications specified in this chapter and ch. SPS 366, is hereby incorporated by reference into this code.

Note: Many of the model codes created by the International Code Council (ICC) and adopted by the Department of Safety and Professional Services may be viewed free of charge on the ICC Internet site. To access these codes go to ~~http://www.eecodes.biz/~~ <http://codes.iccsafe.org/>

and click on “FreeCodes.” “I-Codes.” Online viewers should determine whether the version available on the Internet is the version adopted above.

(From: Departmental goal not yet discussed by council but inserted as a place holder. Adoption of codes will be debated by council after review of significant changes)

SECTION 9. SPS 361.30 (2) and (a) to (d) are renumbered 361.30 (2) and (a) and 1. to 4. and as renumbered, 361.30 (2) (a) is amended to read:

SPS 361.30 (2) (a) Plans for all of the following types of structures shall be submitted to and approved by the department or authorized representative prior to commencement of the project:

(From: Editorial clarification)

SECTION 10. SPS 361.30 (2) (b) is created to read:

SPS 361.30 (2) (b) Plans for fire service drill towers used exclusively for hands on training reflecting emergency conditions are not subject to plan submittal and review, but are required to meet applicable code requirements, including minimum structural requirements.

(From: Industry Services recommendation #17)

SECTION 11. SPS 361.30 (2) (d) (Note) is created to read:

SPS 361.30 (2) (d) Note: Plans for a freestanding columbarium that is not within a mausoleum structure are not required to be submitted and approved.

(From: Industry Services recommendation #46)

SECTION 12. SPS 361.36 (1) (g) is created to read:

SPS 361.36 (1) (g) *Bleachers and canopies.* Plan approval by the department or its authorized representative for bleachers or free standing canopies shall expire 2 years after the approval date on the approved plans of the structure.

(From: Industry Services recommendation #18)

SECTION 13. SPS 361.40 (3) is renumbered 361.40 (3) (title) and (a).

SECTION 14. SPS 361.40 (3) (b) is created to read:

SPS 361.40 (3) (b) If the supervising architect, engineer, or designer withdraws from the project, the owner of the building or structure shall retain a new supervising professional within 30 days and provide the authority that issued plan approval the name and Wisconsin registration number of the replacement supervising professional.

(From: Industry Services recommendation #71)

SECTION 15. SPS 361.60 (2) (c) 2. is amended to read:

SPS 361.60 (2) (c) 2. Provide a ~~monthly~~ report at least quarterly to the department of all projects completed under this subsection, in an electronic-based format prescribed by the department.

(From: Industry Services recommendation #73)

SECTION 16. SPS 361 Subchapters V and VI are renumbered 361 Subchapters VI and VII.

SECTION 17. SPS 361 Subchapter V is created to read:

SUBCHAPTER V

APPROVAL AND INSPECTION OF MODULAR MULTI-FAMILY DWELLINGS AND THEIR COMPONENTS.

SPS 361.45 Modular Multi-Family Housing Scope. This part shall govern the design, manufacture, installation and inspection of modular multi-family housing, manufactured multi-family building systems and the components of the building systems displaying the Wisconsin insignia.

361.46 Manufacture, sale and installation of dwellings. (1) MANUFACTURE AND SALE. No modular multi-family dwelling, manufactured building system or component of the building system subject to this part shall be manufactured for use, sold for initial use or installed in this state unless it is approved by the department and it bears the Wisconsin insignia issued.

(2) INSTALLATION. Building plan review and approval shall be obtained in accordance with SPS 361 Subchapter III before any on-site construction within the scope of this code is commenced for a modular multi-family dwelling

361.47 Approval procedures. (1) APPLICATION FOR APPROVAL. (a) An application for approval of any modular multi-family dwelling, building system or component shall be submitted to the department in the form required by the department, along with the appropriate fees in accordance with s. SPS 302.3.

(b) The department shall review and make a determination on an application for approval of a modular multi-family dwelling, building system or component within 3 months.

(2) APPROVAL OF BUILDING SYSTEMS AND COMPONENTS. (a) *Approval of building systems.* 1. 'Plans and specifications.' All of the following plans and specifications shall be submitted to the department according to subd. 1. a.: 4 complete sets of building, structural, and HVAC plans, (including elevations, sections and details), specifications and calculations shall be submitted to the department on behalf of the manufacturer for examination and approval.

Note: Plumbing plans submission criteria can be found in SPS 384.

2. 'Compliance assurance program.' a. Three sets of the compliance assurance program shall be submitted for examination and approval.

b. The compliance assurance program shall meet the standards of the Model Documents for the Evaluation, Approval and Inspection of Manufactured Buildings or an equivalent standard acceptable to the department.

(b) *Approval of building components.* 1. 'Plans and specifications.' All of the following plans and specifications shall be submitted to the department according to subd. 1. a.: at least 4 complete sets of plans and specifications for manufactured dwelling building components shall be submitted to the department on behalf of the manufacturer for examination and approval.

2. 'Compliance assurance program.' a. Three sets of the compliance assurance program shall be submitted to the department for examination and approval of components.

b. The compliance assurance program shall meet the requirements established by the department or, where applicable, be in the form of the Model Documents for the Evaluation, Approval and Inspection of Manufactured Buildings or an equivalent standard acceptable to the department.

(3) NOTIFICATION OF APPROVAL OR DENIAL OF PLANS, SPECIFICATIONS AND COMPLIANCE ASSURANCE PROGRAM. (a) *Conditional approval.* If the department determines that the plans, specifications, compliance assurance program and application for approval submitted for such building system or component substantially conform to the provisions of this code, a conditional approval shall be issued. A conditional approval issued by the department shall not constitute an assumption of any liability for the design or construction of the manufactured building.

1. 'Written notice.' The conditional approval shall be in writing and sent to the manufacturer and the person submitting the application for approval. Any noncompliance specified in the conditional approval shall be corrected before the manufacture, sale or installation of the dwelling, building system or component.

2. 'Stamping of plans, specifications and compliance assurance program.' Approved plans, specifications and compliance assurance programs shall be stamped "conditionally approved." At least 3 copies shall be returned to the person designated on the application for approval; one copy shall be retained by the department.

(b) *Denial.* If the department determines that the plans, specifications, compliance assurance program or the application for approval do not substantially conform to the provisions of this code, the application for approval shall be denied.

1. ‘Written notice.’ The denial shall be in writing and sent to the manufacturer and the person submitting the application for approval. The notice shall state the reasons for denial.

2. ‘Stamping of plans, specifications and compliance assurance program.’ Plans, specifications and compliance assurance programs shall be stamped “not approved.” At least 3 copies shall be returned to the person submitting the application for approval; one copy shall be retained by the department.

(4) EVIDENCE OF APPROVAL. The manufacturer shall keep at each manufacturing plant where such building system or component is manufactured, one set of plans, specifications and compliance assurance program bearing the stamp of conditional approval. The conditionally approved plans, specifications and compliance assurance program shall be available for inspection by an authorized representative of the department during normal working hours.

(5) INSPECTIONS. Manufacturers shall contract with an independent inspection agency to conduct in-plant inspections to assure that the building system and components manufactured are in compliance with the plans, specifications and the compliance assurance program approved by the department. All inspections, for the purpose of administering and enforcing this code, shall be performed by a Wisconsin certified Commercial Building inspector or inspectors.

Note: Electrical installation inspection criteria can be found in SPS 316.

Note: Plumbing installation inspection criteria can be found in SPS 382.

(6) WISCONSIN INSIGNIA. Upon departmental approval of the plans, specifications and compliance assurance program, and satisfactory in-plant inspections of the building system and components, Wisconsin insignias shall be purchased from the department in accordance with the fee established in s. SPS 302.34. A manufacturer shall be entitled to display the Wisconsin insignia on any approved system or component.

(a) *Lost or damaged insignia.* 1. ‘Notification.’ If Wisconsin insignias become lost or damaged, the department shall be notified immediately, in writing, by the manufacturer or dealer.

2. ‘Return of damaged insignias.’ If Wisconsin insignias become damaged, the insignia shall be returned to the department with the appropriate fee to obtain a new insignia.

(b) *Affixing Wisconsin insignias.* Each Wisconsin insignia shall be assigned and affixed to a specific manufactured dwelling or component in the manner approved by the department before the dwelling is shipped from the manufacturing plant.

(c) *Insignia records.* 1. ‘Manufacturer’s insignia records.’ The manufacturer shall keep permanent records regarding the handling of all Wisconsin insignias, including construction

compliance certificates, indicating the number of Wisconsin insignias which have been affixed to manufactured dwellings or manufactured building components (or groups of components); which Wisconsin insignias have been applied to which manufactured dwelling or manufactured building component; the disposition of any damaged or rejected Wisconsin insignias; and the location and custody of all unused Wisconsin insignias. The records shall be maintained by the manufacturer or by the independent inspection agency for at least 10 years. A copy of the records shall be sent to the department upon request.

2. 'Construction compliance certificate.' Within 30 days after receiving the original Wisconsin insignias from the department, and at the end of each month thereafter, the manufacturer shall submit a construction compliance certificate, in the form determined by the department, for each manufactured dwelling intended for sale, use or installation in the state.

(d) *Unit identification.* Each modular dwelling and major transportable section or component shall be assigned a serial number. The serial number shall be located on the manufacturer's data plate.

(e) *Manufacturer's data plate.* The manufacturer's data plate for building systems shall contain all of the following information, where applicable:

1. Manufacturer's name and address.
2. Date of manufacture.
3. Serial number of unit.
4. Model designation.
5. Identification of type of gas required for appliances and directions for water and drain connections.
6. Identification of date of the codes or standards complied with.
7. State insignia number.
8. Design loads.
9. Special conditions or limitations of unit.
10. Electrical ratings; instructions and warnings on voltage, phase, size and connections of units and grounding requirements.

361.475 Effect of approval. (1) RIGHT TO BEAR INSIGNIA. A manufactured multi-family dwelling or building component approved by the department, and manufactured and inspected in accordance with this code, shall be entitled to bear the Wisconsin insignia.

(2) EFFECT OF INSIGNIA. Manufactured multi-family dwellings and manufactured building components bearing the Wisconsin insignia are deemed to comply with this code, except as to installation site requirements, regardless of the provisions of any other ordinance, rule, regulation or requirement.

(3) RIGHT TO INSTALL. Manufactured multi-family dwellings and components bearing the Wisconsin insignia may be manufactured, offered for sale and shall be entitled to be installed anywhere in Wisconsin where the installation site complies with the other provisions of this code.

361.48 Suspension and revocation of approval. The department shall suspend or revoke its approval of a manufactured building system or manufactured building component if it determines that the standards for construction or the manufacture and installation of a manufactured building system or manufactured building component do not meet this code or that such standards are not being enforced as required by this code. The procedure for suspension and revocation of approval shall be as follows:

(1) FILING OF COMPLAINT. Proceedings to suspend or revoke an approval shall be initiated by the department or an independent inspection agency or Wisconsin Commercial Building certified inspector having a contract with the manufacturer whose approval is sought to be suspended or revoked. Initiation shall be by a signed, written complaint filed with the department. Any alleged violation of the code shall be set forth in the complaint with particular reference to time, place and circumstance.

(2) INVESTIGATION AND NOTIFICATION. The department may investigate alleged violations on its own initiative or upon the filing of a complaint. If it is determined that no further action is warranted, the department shall notify the persons affected. If the department determines that there is probable cause, it shall order a hearing and notify the persons affected.

(3) MAILING. Unless otherwise provided by law, all orders, notices and other papers may be served by the department by certified mail to the persons affected at their last known address. If the service is refused, service may be made by sheriff without amendment of the original order, notice or other paper.

(4) RESPONSE. Upon receipt of notification of hearing from the department, the person charged with noncompliance or nonenforcement may submit to the department a written response within 30 days of the date of service. If the person charged files a timely written response, such person shall thereafter be referred to as the respondent.

(5) CONCILIATION AGREEMENT PRIOR TO HEARING. If the department and the respondent are able to reach agreement on the disposition of a complaint prior to a hearing, such agreement shall be transmitted in writing to the secretary. Until the agreement has been accepted by the secretary, it is not considered a waiver of any defense, nor is it considered an admission of any fact, and is not binding upon any party until signed by all parties.

(6) HEARINGS. (a) *Subpoenas; witness fees.* Subpoenas shall be signed and issued by the department or the clerk of any court of record. Witness fees and mileage of witnesses subpoenaed on behalf of the department shall be paid at the rate prescribed for witnesses in circuit court.

(b) *Conduct of hearings.* All hearings shall be conducted by persons selected by the department. Persons so designated may administer oaths or affirmations and may grant continuances and adjournments for cause shown. The respondent shall appear in person and may be represented by an attorney-at-law. Witnesses may be examined by persons designated by all parties.

(7) FINDINGS. The department shall make findings and enter its order within 14 days of the hearing. Any findings as a result of petition or hearing shall be in writing and shall be binding unless appealed to the secretary.

(8) APPEAL ARGUMENTS. Appeal arguments shall be submitted to the department in writing in accordance with ch. 227, Stats., unless otherwise ordered. The department shall review and make a determination on an appeal of notification of suspension or revocation of approval within 45 business days of receipt of the appeal.

361.485 Effect of suspension and revocation.

(1) BEARING OF INSIGNIA. Upon suspension or revocation by the department of the approval of any modular dwelling or manufactured building component, no further insignia shall be attached to any dwelling or building component manufactured with respect to which the approval was suspended or revoked. Upon termination of such suspension or revocation, insignias may again be attached to the dwelling or building component manufactured after the date approval is reinstated. Should any dwelling or building component have been manufactured during the period of suspension or revocation, it shall not be entitled to bear the Wisconsin insignia unless the department has inspected, or caused to be inspected, such modular dwelling or manufactured building component and is satisfied that all requirements for certification have been met.

(2) RETURN OF INSIGNIAS. The manufacturer shall return to the department all insignias allocated for a modular dwelling or manufactured building component no later than 30 days from the effective date of any suspension or revocation of the approval by the department. The manufacturer shall also return to the department all insignias which it determines for any reason are no longer needed.

(From: Industry Services recommendation)

SECTION 18. SPS 362.0202 (1) is renumbered SPS 362.0202 (1) (title) and (a), and amended to read:

SPS 362.0202 Definitions. (1) ADDITIONS. ~~This is a~~ These are department definition definitions for this chapter in addition to the definitions in IBC section 202: (a) “High-piled combustible storage” means storage of combustible materials in closely packed piles, or on pallets, in racks or on shelves, where the top of storage is greater than 12 feet in height. When required by the fire code official, high-piled combustible storage also includes certain high-hazard commodities, such as rubber tires, Group A plastics, flammable liquids, idle pallets and similar commodities, where the top of storage is greater than 6 feet in height.

SECTION 19. SPS 362.0202 (1) (b) is created to read:

SPS 362.0202 (1) (b) “Neutral Plane” A deep foundation’s neutral plane is the level at which drag load, accumulated from the top down, added to the long-term static service load, equals the upward acting shaft resistance accumulated from the bottom up, added to the deep foundation’s toe resistance.

SECTION 20. SPS 362.0202 (2) is renumbered SPS 362.0202 (2) and (a) and amended to read:

SPS 362.0202 (2) SUBSTITUTIONS. Substitute the following ~~definition~~ definitions for the corresponding definition in IBC section 202: (a) “Approved” means acceptable to the department.

SECTION 21. SPS 362.0202 (2) (b) to (g) and (Note) and (h) are created to read:

SPS 362.0202 (2) (b) “Automatic sprinkler system” or “Automatic fire sprinkler system” has the meaning given in s. 145.01 (2), Stats.

(c) “Fire area” means the aggregate floor area enclosed and bounded by fire walls, fire barriers, exterior walls or fire-resistance-rated horizontal assemblies of a building.

(d) “Fire separation distance” means the distance measured at right angles from the face of the building wall to one of the following:

(e) “Fuel-burning appliance” means a device that is installed in a building and burns fossil-fuel or carbon based fuel where carbon monoxide is a combustion by-product, including ranges, ovens, grills, clothes dryers, furnaces, boilers, water heaters, heaters, fireplaces and stoves.

(f) “Immediately dangerous to life and health (IDLH)” means a concentration of air-borne contaminants which poses a threat of death, immediate or delayed permanent adverse health effects, or effects which could prevent escape from such an environment. This contaminant concentration level is established by the National Institute of Occupational Safety and Health based on both toxicity and flammability. It generally is expressed in parts per million by volume, or milligrams per cubic meter.

(g) “Live/work unit” means a dwelling unit which includes a “home-based business” as defined in s. SPS 361.02 (4).

Note: SPS 361.02 (4), reads as follows: In this code, “home-based business” means any business, profession, trade or employment conducted in a person’s dwelling unit, that may involve the person’s immediate family or household and a maximum of one other unrelated person, but does not involve any of the following:

(a) Explosives, fireworks or repair of motor vehicles.

(b) More than 25% of the habitable floor area of the dwelling unit.

(h) “Sealed combustion appliance” means a listed appliance that acquires all air for combustion through a dedicated sealed passage from the outside to a sealed combustion chamber and all combustion products are vented to the outside through a separate dedicated sealed vent.

SECTION 22. SPS 362.0202 (3) is amended to read:

SPS 362.0202 (3) (d) DELETIONS. The following terms and corresponding definitions in IBC section 202 are not included as part of this code: approved agency, approved fabricator, base flood, base flood elevation, certificate of compliance, design flood, design flood elevation, designated seismic system, dry floodproofing, ~~existing construction~~, fabricated item, ~~inspection certificate~~, label, lowest floor, manufacturer’s designation, mark, ~~special continuous inspection~~, special flood hazard area, special inspection, ~~special periodic inspection~~, sprayed fire-resistant materials, start of construction, and structural observation.

SECTION 23. SPS 362.0308 is created to read:

SPS 362.0308 Five or fewer persons receiving medical care. Substitute the following wording for IBC section 308.4.2: Five or fewer persons receiving medical care. A facility with five or fewer persons receiving medical care shall be classified as Group R-3.

(From: Editorial clarification and Council recommendation from 6.2.15)

SECTION 24. SPS 362.0406 is repealed.

(From: Editorial clarification - IBC section that is modified no longer exists)

SECTION 25. SPS 362.0412 (intro.) is renumbered 362.0412 and (1) (intro.) and amended to read:

SPS 362.0412 Aircraft related occupancies. (1) Substitute the following wording for exception 1 in IBC section ~~412.2.4~~ 412.4.4: Heating equipment that is suspended at least 10 feet above the upper surface of wings or engine enclosures of the highest aircraft which may be housed in the hangar; or at least 8 feet above the floor in shops, offices and other sections of the hangar communicating with storage or service areas.

(From: Editorial clarification – code referenced wrong section)

SECTION 26. SPS 362.0412 (2) is created to read:

SPS 362.0412 (2) Substitute the following wording for the requirements, but not the exception, in IBC section 412.4.3: Floor Surface. Floors shall be graded and drained to meet the requirements of s. SPS 382.34 (2).

(From: Industry Services recommendation #10)

SECTION 27. SPS 362.0415 (1) is amended to read:

SPS 362.0415 (1) ~~Substitute the following wording~~ definition in s. SPS 362.0202 (2) for the corresponding definition listed in IBC section 415.2: “Immediately dangerous to life and health (IDLH).” ~~The concentration of air-borne contaminants which poses a threat of death, immediate or delayed permanent adverse health effects, or effects which could prevent escape from such an environment. This contaminant concentration level is established by the National Institute of Occupational Safety and Health based on both toxicity and flammability. It generally is expressed in parts per million by volume, or milligrams per cubic meter.~~

(From: Editorial clarification and Council recommendation from 6.2.15)

SECTION 28. SPS 362.0509 is created to read:

SPS 362.0509 Incinerator rooms. In IBC section 509, Table 509, “incinerator rooms” does not include crematories as defined in s. 440.70 (8) Stats.

(From: Industry Services recommendation #46)

SECTION 29. SPS 362.0702 (1) to (4) are renumbered 362.0202 (2) (d) 1. to 4.

SECTION 30. SPS 362.0702 is amended to read:

SPS 362.0702 ~~Substitute the following~~ definition in s. SPS 362.0202 (2) for the corresponding definition listed in IBC section 702: “Fire separation distance.” ~~means the distance measured at right angles from the face of the building wall to one of the following:~~

SECTION 31. SPS 362.0702 (title) is repealed and recreated to read:

SPS 362.0702 (title) Definitions.

(From: Editorial clarification and Council recommendation from 6.2.15)

SECTION 32. SPS 362.0707 is repealed.

SECTION 33. SPS 362.0708 is repealed.

SECTION 34. SPS 362.0713 is created to read:

SPS 362.0713 Chute discharge room. This is a department rule in addition to the requirements in IBC section 713: the requirements of IBC 713.13.4 shall apply to recycling chutes in addition to waste and linen chutes.

SECTION 35. SPS 362.0716 (1) (title) and (2) are repealed.

SECTION 36. SPS 362.0716 is renumbered 362.0717.

(From: Council recommendations from 7.7.15)

SECTION 37. SPS 362.0721 is renumbered 362.0722; and 362.0722 (1) and (2), as renumbered, are amended to read:

SPS 362.0722 (1) Substitute the following wording for the exception in each of IBC sections ~~721.2.1.4.3~~ 722.2.1.4.3, ~~721.3.2.3~~ 722.3.2.3 and ~~721.4.1.4~~ 722.4.1.4: Exception: For an exterior wall with a fire separation distance greater than 10 feet, the fire shall be assumed to occur on the interior side only.

SPS 362.0722 (2) Substitute the following wording for IBC Section ~~721.6.2.3~~ 722.6.2.3: For an exterior wall with a fire separation distance greater than 10 feet, the wall is assigned a rating ~~dependant~~ dependent on the interior membrane and the framing as described in IBC Tables ~~721.6.2(1)~~ 722.6.2(1) and ~~721.6.2(2)~~ 722.6.2(2). The membrane on the outside of the nonfire-exposed side of exterior walls with a fire separation distance greater than 10 feet may consist of sheathing, sheathing paper and siding as described in IBC Table ~~721.6.2(3)~~ 722.6.2(3).

(From: Editorial clarification - IBC section number changed)

SECTION 38. SPS 362.0902 (1) (Note) is renumbered SPS 362.0202 (2) (b) (Note).

SECTION 39. SPS 362.0902 (1) and (2) are amended to read:

SPS 362.0902 Definitions. Substitute the following definitions and informational note in s. SPS 362.0202 (2) for the corresponding definitions listed in IBC section 902.1:

(1) “Automatic sprinkler system” or “Automatic fire sprinkler system.” ~~has the meaning given in s. 145.01 (2), Stats.~~

(2) “Fire area.” ~~means the aggregate floor area enclosed and bounded by fire walls, fire barriers, exterior walls or fire-resistance-rated horizontal assemblies of a building.~~

(From: Editorial clarification and Council recommendation from 6.2.15)

SECTION 40. SPS 362.0903 (5) (c) is repealed.

(From: Industry Services recommendation)

SECTION 41. SPS 362.0903 (12) is created to read:

SPS 362.0903 (12) The requirements of IBC 903.2.11.2 shall apply to recycling chutes in addition to rubbish and linen chutes.

SECTION 42. SPS 362.0904 (2) (a) is repealed.

SECTION 43. SPS 362.0904 (2) (c) is created to read:

SPS 362.0904 (2) (c) Substitute the following wording for IBC 904.12.2: System interconnection. The actuation of the fire suppression system shall automatically shut down all sources of fuel and power to all equipment located beneath the exhaust hood and protected by the suppression system. The fuel and power reset shall be manual.

(From: Council recommendations from 7.7.15)

SECTION 44. SPS 362.0907 (4) is amended to read:

SPS 362.0907 (4) Substitute the following wording for the ~~requirements~~ exception in IBC section ~~907.5.2.3.2~~ 907.5.2.3.1: Where employee work areas have audible alarm coverage, the alarm system shall be designed so that visible notification appliances can be integrated into the system.

(From: Editorial clarification - IBC section language changed)

SECTION 45. SPS 362.0910 (1) and (2) are amended to read:

SPS 362.0910 (1) Substitute the following wording for exception 1. in IBC section ~~910.1~~ 910.2: Buildings protected by an approved automatic sprinkler system.

(2) Substitute the following wording for the requirements, but not the exception, in IBC section 910.2.1: Buildings and portions thereof used as Group F-1 or S-1 occupancies having more than 50,000 square feet in area that is undivided by full-height walls ~~having smoke-resisting characteristics which are similar to those under IBC section 910.3.5.1~~ constructed of sheet metal.

lath and plaster, gypsum board or other approved materials which provide equivalent performance to resist the passage of smoke. Joints and connections shall be smoke tight.

(From: Editorial clarification – language from IBC 2009 which was formerly referenced no longer exists and was thus incorporated in sub. (2) to replace the IBC reference)

SECTION 46. SPS 362.1004 is amended to read:

SPS 362.1004 Substitute the following wording for the requirements, but not the exceptions, in IBC section ~~1004.8~~ 1004.5: Yards, patios, courts and similar outdoor areas accessible to and usable by the building occupants shall be provided with means of egress as required by this chapter. The occupant load of such outdoor areas shall be based on the anticipated use. Where outdoor areas are to be used by persons in addition to the occupants of the building, and the path of egress travel from the outdoor areas passes through the building, means of egress requirements for the building shall be based on the sum of the occupant load of the building plus the outdoor areas.

SECTION 47. SPS 362.1008 is renumbered 362.1010; and SPS.1010 (1) and (2), as renumbered, are amended to read:

SPS 362.1010 (1) This is a department exception to the requirements in IBC section ~~1008.1.1~~ 1010.1.1: The clear door opening for a nonaccessible toilet stall, shower stall, or other similar compartment, may be less than 32-inches wide.

SPS 362.1010 (2) This is a department exception to the requirements in IBC section ~~1008.1.8~~ 1010.1.8: Where maneuvering space is provided between the doors in accordance with IBC section 1101.2 such that use by an individual in a wheelchair will not block the operation of the doors.

SECTION 48. SPS 362.1009 is renumbered 362.1011 and amended to read:

SPS 362.1011 This is a department rule in addition to the requirements in IBC section ~~1009.1~~ 1011.1: Where installing an inclined platform lift or stairway chairlift, the clear-passage width shall be provided with the lift in the unfolded, usable position.

(From: Editorial clarifications - IBC section numbers changed)

SECTION 49. SPS 362.1009 is created to read:

SPS 362.1009 This is a department exception in addition to the exceptions in IBC section 1009.3: Areas of refuge are not required at floors that are not required to be accessible.

(From: Council recommendation from 12/1/15 meeting)

SECTION 50. SPS 362.1014, (title) and (intro.) and (1) and (2) are renumbered 362.1006, (1) (title) and (intro) and (a) and (b); and 362.1006 (1) and (1) (b), as renumbered, are amended to read:

SPS 362.1006 (1) EXIT ACCESS. This is a department exception to the requirements in IBC section ~~1014.3~~ 1006.2.1: The length of a common path of egress travel requirements shall not be limited within townhouse dwelling units provided the townhouse complies with all of the following:

(b) Each dwelling unit within the townhouse is separated from other dwelling units by at least 2-hour fire-resistive-rated separation walls constructed in accordance with the requirements of IBC section ~~705~~ 706 and do not contain any openings and plumbing equipment or mechanical equipment. The separation wall does not have to comply with the structural stability requirements of IBC section ~~705.2~~ 706.2 and the horizontal continuity requirements of IBC section ~~705.5~~ 706.5.

(From: Council recommendation from 8.4.15)

SECTION 51. SPS 362.1015 and (title) are renumbered 362.1006 (2) and (title).

(From: Editorial clarification)

SECTION 52. SPS 362.1015 is created to read:

SPS 362.1015 Substitute the following wording for the requirements, but not the exception in IBC section 1015.2: Guards shall be located along the open side of walking surfaces, balconies, mezzanines, stairs, ramps, landings, roofs and similar surfaces accessible to building occupants or the public where the change in elevation is more than 30 inches (762 mm) to the floor or roof below or more than 30 inches (762 mm) measured vertically to the grade below at any point within 36 inches (914 mm) horizontally to the edge of the open side. Guards shall be adequate in strength and attachment in accordance with Section 1607.8.

(From: Recommendation from Harry Sulzer, City of Madison)

SECTION 53. SPS 362.1018 is renumbered 362.1020 and amended to read:

SPS 362.1020 This is a department exception to the requirements in IBC section ~~1018.6~~ 1020.6: Other spaces or rooms constructed as required for corridors, and that are adjacent to a fire-resistance-rated corridor, shall not be construed as intervening rooms; and may be open to the corridor when all of the following are satisfied:

(From: Editorial clarifications - IBC section numbers changed)

SECTION 54. SPS 362.1021 (1) is repealed.

SECTION 55. SPS 362.1021 (title) and (2) are renumbered 362.1006 (3) and (title) and amended to read:

SPS 362.1006 (3) This is a department exception to the requirements in IBC section ~~4024.4~~ 1006.3: Buildings of Group I-3 occupancy that are used as guard towers, provided the towers are no higher than 2 stories above grade, accommodate no more than 10 occupants, and have a travel distance of no more than 75 feet.

SECTION 56. SPS 362.1022 is repealed.

(From: Council recommendation from 8.4.15)

SECTION 57. SPS 362.1103 is amended to read:

SPS 362.1103 Substitute the following wording for the requirements in IBC section ~~1103.2.8~~ 1103.2.7:

(From: Editorial clarification - IBC section number changed)

SECTION 58. SPS 362.1104 (2) is repealed.

(From: Council recommendation from 8.4.15)

SECTION 59. SPS 362.1109 is repealed.

SECTION 60. SPS 362.1110 is renumbered 362.1111 and, as renumbered, 361.1111 (1) (a), (2) (a), and (2) (b) are amended to read:

SPS 362.1111 (1) (a) Substitute the following wording for the requirements for location 1 in IBC section ~~1110.1~~ 1111.1: Except as specified par. (b), accessible parking spaces required in IBC section 1106 for the general public shall be identified with a sign complying with the accessible parking sign requirements specified in s. Trans 200.07.

(2) (a) Substitute the following wording for the introductory paragraph of IBC section ~~1110.2~~ 1111.2: Signage indicating directional information or information about functional spaces or signage indicating special accessibility provisions shall comply with ICC A117.1 and be provided at the following locations:

(2) (b) This is a department informational note to be used under IBC section ~~1110.3~~ 1111.3.

(From: Editorial clarification - IBC section number changed)

SECTION 61. SPS 362.1200 is renumbered 362.0915 and 362.0915 (title) and (intro.) and (1) (b) and (d), as renumbered, are amended to read:

SPS 362.0915 Carbon monoxide alarms detection. ~~These are department rules in addition to~~ Substitute the following wording for the requirements in IBC ~~chapter 12~~ section 915:

(1) (b) “~~Fuel-burning appliance~~” ~~means a device that is installed in a building and burns fossil-fuel or carbon based fuel where carbon monoxide is a combustion by-product, including stoves, ovens, grills, clothes dryers, furnaces, boilers, water heaters, heaters, fireplaces and stoves~~ has the meaning as given in s. SPS 362.0202 (2).

(d) “~~Sealed combustion appliance~~” ~~means a listed appliance that acquires all air for combustion through a dedicated sealed passage from the outside to a sealed combustion chamber and all combustion products are vented to the outside through a separate dedicated sealed vent~~ has the meaning as given in s. SPS 362.0202 (2).

(From: Council recommendation from 6.2.15)

SECTION 62. SPS 362.1203 is created to read:

SPS 362.1203 Natural Ventilation. This is a department rule in addition to the requirements in ~~IMC section 402~~ IBC section 1203.5: The use of natural ventilation shall be permitted under either of the following:

(1) In occupancies specified in s. SPS 364.0402, Table 364.0402.

(2) For any occupancy, provided an engineered design indicates how the ventilation satisfies the needs of the occupancy.

(From: Council recommendations from 8.4.15)

SECTION 63. SPS 362.1210 (intro) and (1) and (2) and (a) to (c) are renumbered 362.1210 (1) and (a) and (b) and 1. to 3., and as renumbered, 362.1210 is amended to read:

SPS 362.1210 ~~These are department rules in addition to the requirements in IBC section 1210.5~~ 1210:

(From: Editorial clarification - IBC section number changed)

SECTION 64. SPS 362.1210 (2) is created to read:

SPS 362.1210 (2) Substitute the following wording for the requirements in IBC section 1210.3.2: Urinals shall be arranged individually with or without partitions.

(From: Editorial clarification - IBC section number changed so the portion of SPS 362.2900 (3) (a) regarding partitions has been moved to 362.1210)

SECTION 65. SPS 362.1405 (1) and (2) are renumbered 362.1405 (2) and (3), and 362.1405 (2), as renumbered, is amended to read:

SPS 362.1405 (2) This is a department exception in addition to the exceptions in IBC section ~~1405.3~~ 1405.3.1: Where other approved means to avoid condensation in unventilated framed wall, floor, roof and ceiling cavities and box sills are provided.

(From: Editorial clarification - IBC section number changed)

SECTION 66. SPS 362.1405 (1) is created to read:

SPS 362.1405 (1) Substitute the following wording for the requirements, but not the exceptions, in IBC section 1405.3.1: Class I and II vapor retarders. Class I or II vapor retarders shall be provided on the interior side of frame walls and ceiling assemblies.

(From: Industry Services recommendation #4)

SECTION 67. SPS 362.1503 is created to read:

SPS 362.1503 Roof drainage. Substitute the following wording for IBC section 1503.4: Design and installation of roof drainage systems shall comply with section 1503 of the IBC and all applicable provisions in chapter SPS 382.

(From: Council recommendations from 9.1.15)

SECTION 68. SPS 362.1510 is created to read:

SPS 362.1510 Photovoltaic systems. This is a department requirement in addition to the requirements of IBC section 1510.7: Rooftop photovoltaic systems shall meet the requirements in s. SPS 314.01 (2) 3. a. and b.

(From: Industry Services recommendation #67)

SECTION 69. SPS 362.1607 (1) and (Table) 1607.1 and (2) are amended to read:

SPS 362.1607.1 (1) Substitute the following wording and live loads for the requirements in line ~~27~~ 25 and footnote j of IBC Table 1607.1:

Table 1607.1
Minimum Uniformly Distributed Live Loads
and Minimum Concentrated Live Loads^g
(Partial Table)

Occupancy or Use	Uniform (psf)	Concentrated (lbs.)
27 <u>25</u> . Residential		
Uninhabitable attics without storage ⁱ	5	
Uninhabitable attics with storage ^{i, j, k}	20	
Habitable attics	40	--
Hotels and Group R-2		
Private rooms and corridors serving them	40	
Public rooms and corridors serving them	100	

j. For attics with storage and constructed with trusses, this live load need only be applied to those portions of the bottom chord where there are two or more adjacent trusses with the same web configuration capable of containing a rectangle 42 inches high by 2 feet wide or greater, located within the plane of the truss. The rectangle shall fit between the top of the bottom chord and the bottom of any other truss member, provided that each of the following criteria is met:

- i. The attic area is accessible by a pull-down stairway or framed opening in accordance with IBC section 1209.2, and
- ii. The truss shall have a bottom chord pitch less than 2:12.
- iii. Bottom chords of trusses shall be designed for the greater of actual imposed dead load or 10 psf, uniformly distributed over the entire span.

(2) Substitute the following wording for the requirements in IBC section ~~1607.6~~ 1607.7.3: Minimum live loads for garages having trucks or buses shall be as specified in IBC ~~Table 1607.6~~ Section 1607.7.3, but shall not be less than 50 pounds per square foot, unless other loads are specifically justified and approved by the department. Actual loads shall be used where they are greater than the loads specified in the table.

(From: Editorial clarification - IBC section and table classification numbers changed)

SECTION 70. SPS 362.1608 (2) (a) 1. and (b) are amended to read:

SPS 362.1608 (2) (a) 1. Where an existing roof, regardless of the date of its construction, is horizontally within ~~15~~ 20 feet of a proposed, taller structure on the same property, IBC section 1608.1 or an alternate recognized engineering method shall be applied to the existing roof, to address any drifting or sliding of snow onto the existing roof, as caused by the taller structure.

(b) Where an existing roof, regardless of the date of its construction, is horizontally within ~~15~~ 20 feet of a proposed, taller structure on an adjoining property, the owner of the proposed structure shall notify the adjoining owner of the potential for increased structural loads on the existing roof, due to sliding or drifting of snow, as caused by the taller structure.

(From: Council recommendation from 10.6.15)

SECTION 71. SPS 362.1802 is amended to read:

SPS 362.1802 Definition of neutral plane. Definitions. ~~This is a department definition in~~ In addition to the definitions listed in IBC section 1802.1, the following term has the meaning given in s. SPS 362.0202 (1): ~~NEUTRAL PLANE. A deep foundation's neutral plane is the level at which drag load, accumulated from the top down, added to the long-term static service load, equals the upward acting shaft resistance accumulated from the bottom up, added to the deep foundation's toe resistance.~~ “Neutral Plane.”

(From: Council recommendation from 6.2.15)

SECTION 72. SPS 362.1809 (intro) and (1) and (2) are renumbered SPS 362.1809 (1) and (a) and (b).

SECTION 73. SPS 262.1809 (2) is created to read:

SPS 362.1809 (2) This is a department exception in addition to the exception in IBC 1809.5: Floating slabs used with non-masonry, unheated, non-occupied, single-story buildings in Risk Category I that are less than 12,000 square feet are exempt from the requirements for frost protection.

(From: Council recommendation from 10.6.15 and Industry Services recommendation #37)

SECTION 74. SPS 362.2103 is repealed.

(From: Council recommendation from 10.6.15)

SECTION 75. SPS 362.2510 is created to read:

SPS 362.2510 This is a department rule in addition to the requirements in IBC section 2510.6: The vertical leg of flashing at the base of a wall with two layers of water-resistive barrier shall be installed behind both layers of water-resistive barrier.

(From: Council recommendation from 10.6.15)

SECTION 76. SPS 362.2900 (3) (b) 1. and 2. are repealed.

(From: Industry Services recommendation #24 and editorial clarification – these are now addressed in exceptions 1 and 2 in IBC section 1210.3.1)

SECTION 77. SPS 362.2900 (3) (title) and (a) are consolidated and renumbered 362.2900 (3) and as renumbered, are amended to read:

SPS 362.2900 (3) ENCLOSURE OF FIXTURES URINALS ~~Water closets and urinals within a toilet room shall be arranged to ensure privacy. Except as provided in par. (b), each water closet shall occupy a separate compartment with walls or partitions and a door enclosing the fixtures to ensure privacy. Urinals shall be placed against walls at least 6 feet 8 inches high and arranged individually with or without partitions.~~

SECTION 78. SPS 362.2900 (3) (b) 3. is renumbered 362.1210 (1) (a) 4.

(From: Industry Services recommendation #24 and editorial clarification)

SECTION 79. SPS 362.2902 (1) (a) 2. is amended to read:

SPS 362.2902 (1) (a) 2. Where water is served in restaurants or other occupancies, or where other acceptable ~~arrangements~~ reasonable alternatives are made to provide drinking water, drinking fountains are not required.

(From: Industry Services recommendation #45)

SECTION 80. SPS 362.2902 (1) (e) is created to read:

SPS 362.2902 (1) (e) *Alternative to IBC Table 2902.1* This is a department alternative to the minimum fixture requirements of IBC Table 2902.1: The required number of toilet fixtures may be based on the actual occupancy load rather than the load determined by square footage per IBC Table 1004.1.1. The actual occupancy load shall be based on justification found acceptable to the Dept. and deemed reasonable.

(From: Industry Services recommendation #66)

SECTION 81. SPS 362.3002 (title), (intro) and (1) to (3) are renumbered 362.3002 (1) (title), (intro) and (a) to (c).

SECTION 82. SPS 362.3002 (title) is created to read:

SPS 362.3002 Hoistway Enclosures.

SECTION 83. SPS 362.3004 (1) and (2) are repealed.

(From: Editorial clarification - hoistway venting is no longer required by the IBC)

SECTION 84. SPS 362.3004 (3) is renumbered 362.3002 (2) and amended to read:

SPS 362.3002 (2) Substitute the following wording for the requirements and the exception in IBC section ~~3004.4~~ 3002.9:

(From: Editorial clarification - IBC section number changed)

SECTION 85. SPS 362.3600 (1) is amended to read:

SPS 362.3600 (1) The provisions in IBC Appendices A, B, D, ~~and F to K,~~ and M are not included as part of this code.

(From: Editorial clarification - IBC appendix added)

SECTION 86. SPS 364.0306 is repealed.

(From: Council recommendation from 8.4.15)

SECTION 87. SPS 364.1500 (2) (a) is amended to read:

SPS 364.1500 (2) (a) FGI Guidelines for Design and Construction of ~~Health Care Facilities, 2010~~ Hospitals and Outpatient Facilities, 2014.

SECTION 88. SPS 364.1500 (2) (am) is created to read:

SPS 364.1500 (2) (am) FGI Guidelines for Design and Construction of Residential Health, Care, and Support Facilities, 2014.

(From: Recommendations from DHS/DQA)

SECTION 89. SPS 366.0101 (2) is amended to read:

SPS 366.0101 (2) (a) Except as provided in par. (b), where a building or portion of a building that has not been previously occupied or used as a public building or place of employment is to be changed to an occupancy or use that constitutes a public building or place of employment, the building or portion of a building shall comply with ~~the IBC for new construction~~ IEBC Chapter 14, Performance Compliance Methods.

(From: Recommendation from Tom Kasper)

SECTION 90. SPS 366.0101 (3) and (a) to (d) are renumbered 366.0101 (3) (a) and 1. to 4.

SECTION 91. SPS 366.0101 (3) (b) is created to read:

SPS 366.0101 (3) (b) Locally permitted temporary uses may be over-ridden by state corrective building orders.

(From: Recommendation from Tom Kasper)

SECTION 92. SPS 366.0101 (4) (b) and (c) are amended to read:

SPS 366.0101 (4) (b) Repairs, alterations, additions, changes in occupancy, and relocated buildings complying with the applicable requirements of IEBC chapters 4 5 through ~~12~~ 13 shall be considered in compliance with the provisions of this code.

(c) Repairs, alterations, additions, changes in occupancy, and relocated buildings complying with IEBC chapter ~~13~~ 14 shall be considered in compliance with the provisions of this code.

(From: Editorial clarification – IEBC chapter numbers changed)

SECTION 93. SPS 366.0202 is created to read:

SPS 366.0202 Definitions. Substitute the following definition for the corresponding definition in IEBC section 202: “Work area” means that portion or portions of a building consisting of all reconfigured spaces as indicated on the construction documents. Work area excludes other portions of the building where incidental work entailed by the intended work must be performed and portions of the building where work not initially intended by the owner is specifically required by this code. The work area is the area reconfigured with full height walls and the area that has its required egress reconfigured.

(From: Recommendation from Tom Kasper)

SECTION 94. SPS 366.0300 is renumbered 366.0400 and amended to read:

SPS 366.0400 The requirements in IEBC Chapter ~~3~~ 4 are not included as part of this code, except for the requirements in IEBC Section ~~340~~ 410 when applied by IEBC Section ~~1301.2.5~~ 1401.2.5.

SECTION 95. SPS 366.0500 is renumbered 366.0600 and amended to read:

SPS 366.0600 These are department rules in addition to the requirements in IEBC chapter ~~5~~ 6 and are established under the authority of s. 101.127, Stats.:

SECTION 96. SPS 366.0506 is renumbered 366.0606 and amended to read:

SPS 366.0606 The requirements in IEBC sections ~~506.2~~ 606.2 to ~~506.2.5~~ 606.2.5 are not included as part of this code.

SECTION 97. SPS 366.0509 is renumbered 366.0609 and amended to read:

SPS 366.0609 The requirements in IEBC section ~~509~~ 609 are not included as part of this code.

SECTION 98. SPS 366.0602 and (1) and (2) is renumbered 366.0702 and (1) and (2) and amended to read:

SPS 366.0702 (1) MATERIALS AND METHODS. Substitute the following wording for the requirements in IEBC section ~~602.4~~ 702.4: All new work shall comply with materials and methods requirements in the IBC, IECC, IFGC, IMC, and IPC, as applicable, that specify material standards, detail of installation and connection, joints, penetrations, and continuity of any element, component, or system in the building.

(2) INTERNATIONAL FUEL GAS CODE. The requirements in IEBC section 602.4.1 are not included as part of this code.

SECTION 99. SPS 366.0604 is renumbered 366.0704 and amended to read:

SPS 366.0704 This is a department rule in addition to the requirements in IEBC section ~~604~~ 704: Where installing an inclined platform lift or stairway chairlift, the clear–passage width shall be provided with the lift in the unfolded, usable position — except where an existing, previously approved lift is being replaced, the clear–passage width may remain as it was with the original lift in place, but it may not be reduced by the replacement.

(From: Editorial clarifications – IEBC chapter numbers changed)

SECTION 100. SPS 366.0605 is repealed and recreated to read:

SPS 366.0605 Accessibility. Substitute the following wording for the requirements in IEBC section 605.1: General. Repairs shall be done in a manner that maintains any required accessibility in accordance with IEBC section 705.1.13.

(From: IEBC now includes these provisions which were taken from the 2012 IECC and recommendation from Tom Kasper)

SECTION 101. SPS 366.0607 is repealed.

(From: IEBC now includes these provisions which were taken from the 2012 IECC)

SECTION 102. SPS 366.0701 is created to read:

SPS 366.0701 General. Substitute the following wording for the requirements in IEBC section 701.2: Conformance. An existing building or portion thereof shall not be altered such that the building becomes less safe than was required in its existing condition.

SECTION 103. SPS 366.0703 is created to read:

SPS 366.0703 Fire Protection. Substitute the following wording for the requirements in IEBC section 703.1: General. Alterations shall be done in a manner that maintains the level of fire protection required prior to the alteration.

(From: Recommendation from Tom Kasper)

SECTION 104. SPS 366.0704 is renumbered 366.0804 and amended to read:

SPS 366.0804 This is a department exception to the requirement in IEBC section ~~704.2~~ 804.2: The installation or extension of an automatic sprinkler system may exclude the protection of combustible concealed spaces that are not accessible in existing buildings. This exclusion is also applicable to sprinkler systems triggered by changes of use or additions.

(From: Editorial clarifications – IEBC chapter numbers changed and recommendation from Tom Kasper)

SECTION 105. SPS 366.0704 is created to read:

SPS 366.0704 Means of Egress. Substitute the following wording for the requirements in IEBC section 704.1: General. Alterations shall be done in a manner that maintains the level of protection required for the means of egress prior to the alteration.

(From: Recommendation from Tom Kasper)

SECTION 106. SPS 366.0709 is renumbered 366.0809 and amended to read:

SPS 366.0809 The exception to the requirements in IEBC section ~~709.1~~ 809.1 and the requirements in IEBC section ~~709.2~~ 809.2 are not included as part of this code.

SECTION 107. SPS 366.0710 is renumbered 366.0810 and amended to read:

SPS 366.0810 Substitute the following wording for the requirements in IEBC section ~~710.1~~ 810.1: Where the occupant load of a story is increased by more than 20 percent, plumbing fixtures for the story shall be provided in quantities specified in the IBC based on the increased occupant load.

(From: Editorial clarifications – IEBC chapter numbers changed)

SECTION 108. SPS 366.0711 is repealed.

(From: IEBC now includes these provisions which were taken from the 2012 IECC)

SECTION 109. SPS 366.0802 is renumbered 366.0902 and amended to read:

SPS 366.0902 The requirements in IEBC section ~~802.2.1~~ 902.2.1 are not included as part of this code.

SECTION 110. SPS 366.0803 is created to read:

SPS 366.0803 Building elements and materials. Substitute the following wording for the requirements in IEBC section 803.2.1: All existing interior vertical openings in the work area connecting two or more floors shall be enclosed with approved assemblies having a fire resistance rating of not less than one hour with approved opening protectives.

(From: Recommendation from Tom Kasper)

SECTION 111. SPS 366.0808 is repealed.

(From: IEBC now includes these provisions which were taken from the 2012 IECC)

SECTION 112. SPS 366.0809 is renumbered 366.0909 and amended to read:

SPS 366.0909 These are department rules in addition to the requirements in IEBC chapter ~~8~~ 9:

SECTION 113. SPS 366.0901 and (1) to (3) are renumbered 366.1001 and (1) to (3) and amended to read:

SPS 366.1001 (1) CHANGE IN OF OCCUPANCY WITH NO OCCUPANCY CLASSIFICATION. Substitute the following wording for the requirements in IEBC section ~~901.2~~ 1001.2: A change in of occupancy, as defined in IEBC section 202, with no or a change of occupancy classification within a space where there is a different fire protection system threshold requirement in Chapter 9 of the International Building Code may not be made to any structure that will subject the structure to any special provisions of this code, including the provisions of IEBC sections 902 through 911, without the approval of the code official. An increased occupant load may trigger additional means of egress or fire protection requirements.

(2) CHANGE OF OCCUPANCY CLASSIFICATION. This is a department rule in addition to the requirements in IEBC section ~~901.3~~ 1001.2.2: Buildings undergoing a change in occupancy that would result in an increase in demand for either fossil fuel or electrical energy shall comply with the IECC.

(3) CERTIFICATION OF OCCUPANCY REQUIRED. The requirements in IEBC section ~~901.4~~ 1001.3 are not included as part of this code.

(From: Editorial clarifications – IEBC chapter and section numbers and section titles changed, section content changed, and recommendation from Tom Kasper)

SECTION 114. SPS 366.0901 (4) is renumbered 366.1012 and amended to read:

SPS 366.1012 Standpipe systems. This is a department rule in addition to the requirements in IEBC section ~~912.2~~ 1012.2: Standpipe systems shall be provided in existing buildings and structures or portions of existing buildings and structures in accordance with chapter 9 of the IBC when existing buildings or structures that are greater than 60 feet in height are changed to include a Group R-1 or R-2 occupancy.

SECTION 115. SPS 366.0902 is created to read:

SPS 366.0902 Boiler and furnace equipment rooms. Substitute the following wording for the requirements, but not the exceptions, in IEBC section 902.2: Boiler and furnace equipment rooms. Boiler and furnace equipment rooms adjacent to or within Groups I-1, I-2, I-4, R-1, R-2 and R-4 occupancies shall be enclosed in compliance with IBC 509 heating equipment enclosure requirements.

(From: Recommendation from Tom Kasper)

SECTION 116. SPS 366.0911 is renumbered 366.1011 and amended to read:

SPS 366.1011 (1) ELEVATOR RECALL. This is a department rule in addition to the requirements in IEBC section ~~911~~ 1011: At least one existing elevator shall be provided with emergency recall operation and emergency in-car operation complying with ch. SPS 318 when an existing building or structure that is greater than 60 feet in height is changed to include a Group R-1 or R-2 occupancy.

(2) CARBON MONOXIDE ALARMS. This is a department rule in addition to the requirements in IEBC section ~~911~~ 1011: A building or a portion of a building changed to be or include a residential building as defined under s. 101.149 (1) (b), Stats., shall be provided with carbon monoxide alarms or detectors in accordance with s. SPS 362.1200.

SECTION 117. SPS 366.0912 is renumbered 366.1010 and amended to read:

SPS 366.1010 Substitute the following wording for the requirements in IEBC section ~~910~~ 1010: Where the occupant load of a story is increased by more than 20 percent, plumbing fixtures for the story shall be provided in quantities specified in the IBC based on the increased occupant load.

SECTION 118. SPS 366.1002 is renumbered 366.1102 and amended to read:

SPS 366.1102 This is a department exception to the requirements in IEBC section ~~1002.3~~ 1102.3: An automatic sprinkler system is not required for additions to individual dwelling units within existing townhouses that are not already protected with an automatic sprinkler system.

(From: Editorial clarifications – IEBC chapter numbers changed)

SECTION 119. SPS 366.1012 and (1) and (2) are created to read:

SPS 366.1012 Change of Occupancy Classification. (1) This is a department note in addition to the requirements in IEBC section 1012.1.1: The provision of chapters 7 to 9 of the IEBC are applicable to the work area.

(2) Substitute the following wording for the requirements, but not the exceptions, in IEBC section 1012.2.1: Fire sprinkler system. Where a change in occupancy classification occurs or where there is a change of occupancy within a space where there is a different fire protection system threshold requirement in Chapter 9 of the International Building Code that requires an automatic fire sprinkler system to be provided based on the new occupancy in accordance with Chapter 9 of the *International Building Code*, such system shall be provided throughout the work area.

(From: Recommendations from Tom Kasper)

SECTION 120. SPS 366.1101 is renumbered 366.1201 and amended to read:

SPS 366.1201 (1) SCOPE. This is a department rule in addition to the requirements in IEBC section ~~1101.1~~ 1201.1: Any historic building is exempt from the energy requirements of this code.

(2) REPORT. The requirements in IEBC section ~~1101.2~~ 1202.2 are not included as part of this code.

(From: Editorial clarifications – IEBC chapter numbers changed)

SECTION 121. SPS 366.1102 is created to read:

SPS 366.1102 This is a department exception in addition to the exception in IEBC section 1102.2: Buildings meeting the legacy Wisconsin unlimited area provisions are allowed to have unlimited area additions per the current code without a separating firewall.

(From: Recommendations from Tom Kasper)

SECTION 122. SPS 366.1105 is renumbered 366.1205 and 366.1205 (intro) as renumbered, is amended to read:

SPS 366.1205 (intro) These are department rules in addition to the requirements in IEBC section ~~1105~~ 1205: Historic buildings to be used as exhibit buildings shall comply with all of the following requirements:

SECTION 123. SPS 1301 is renumbered 366.1401 and amended to read:

SPS 366.1401 ~~Applicability~~ General (1) APPLICABILITY. Substitute the following wording for the requirements in IEBC section ~~1301.2~~ 1401.2: The provisions of sections ~~1301.2.1~~ 1401.2.1 through ~~1301.2.5~~ 1401.2.5 shall apply to existing occupancies that will continue to be, or are proposed to be, in Groups A, B, E, F, M, R and S. These provisions shall not apply to buildings with occupancies in Group H or Group I.

(2) ACCESSIBILITY REQUIREMENTS. Substitute the following wording for the requirements in IEBC section ~~1301.2.5~~ 1401.2.5: All portions of the buildings proposed for change of occupancy or being altered shall conform to the accessibility provisions of IEBC section 310.

(3) OTHER CODES. The requirements in IEBC section ~~1301.3.2~~ 1401.3.2 are not included as part of this code.

SECTION 124. SPS 366.1401 (4) is created to read:

SPS 366.1401 (4) Minimum plumbing fixtures. This is a department rule in addition to the requirements in IEBC section 1401.2: Where the occupant load of a story is increased by more

than 20 percent, plumbing fixtures for the story shall be provided in quantities specified in the IBC based on the increased occupant load.

(From: Recommendations from Tom Kasper)

SECTION 125. SPS 366.1400 is renumbered 366.1500 and amended to read:

SPS 366.1500 The requirements in IEBC chapter ~~44~~ 15 are not included as part of this code.

(From: Editorial clarifications – IEBC chapter numbers changed)

SECTION 126. Chapters SPS 361 – 366 Appendix A is deleted.

(From: Industry Services recommendation #77)

SECTION 127. Chapters SPS 361 – 366 Appendix B is renumbered SPS 361 to 366 Appendix B.

(From: Editorial clarification)

SECTION 128. EFFECTIVE DATE. The rules adopted in this order shall take effect on the first day of the month following publication in the Wisconsin administrative register, pursuant to s. 227.22 (2) (intro.), Stats.

File reference: SPS 361-366/partial proposed draft language 08

Summary of 2012 and 2015 IFC Changes^a Significant in Wisconsin^b and Comparison With Wisconsin’s Requirements^c

IFC Code Sections	Description		Comments
	SPS 361	2012 IFC Changes	
PART I - ADMINISTRATION			
CHAPTER 1 - SCOPE AND ADMINISTRATION			
	361.03 (14)	<p>361.03 (14) INTERNATIONAL FIRE CODE. The IFC, as referenced by the codes adopted under s. SPS 361.05, does not apply except as follows:</p> <p>(a) Design and construction–related requirements shall apply that are addressed in IFC section 102.6; IFC chapters 2 to 4; IFC sections 501 to 502 and 504 to 510; IFC sections 601 to 605 and 607 to 609; IFC chapters 7 and 8; IFC sections 901.1 to 901.4.2, 901.4.4 to 909.18.9, and 909.20 to 913; and IFC chapters 10, 12 to 21, 23 to 29, 31 to 33, 36, 37, and 39 to 47.</p> <p>(b) Occupant loads addressed in IFC section 1004.8 shall apply but shall be established by the owner rather than by the code official.</p> <p>(c) Construction–related inspections and reports shall apply that are addressed in IFC chapters 2 to 8; IFC sections 901 to 909.18.9 and 909.20 to 913; and IFC chapters 10, 12 to 21, 23 to 29, 31, 32, 33, 36, 37, and 39 to 47 but may be performed or compiled by any qualified agency, rather than by a special inspector.</p> <p>(d) Use and operation provisions shall apply which are a contingency of design and construction–related requirements and which are addressed in IFC chapters 2 to 4; IFC sections 501 and 502 and 504 to 510; IFC sections 601 to 605 and 607 to 609; IFC chapters 7 and 8; IFC sections 901.1 to 901.4.2, 901.4.4 to 909.18.9, and 909.20 to 913; and IFC chapters 10, 12 to 21, 23 to 29, 31 to 33, 36, 37, and 39 to 47.</p>	
	361.03 (15)	<p>361.03 (15) GLOBAL DELETIONS FOR THE INTERNATIONAL CODES. Unless specifically applied by another department–written rule in this code, the following requirements of the IBC, IEBC, IECC, IFC, IFGC and IMC do not apply as rules of the department:</p> <p>(a) All requirements that specify submittal and approval of construction documents, shop drawings or acceptance tests and records.</p> <p>(b) All requirements that specify employing special inspectors or obtaining special inspections or structural observations.</p> <p>(c) All requirements that mandate obtaining approval, acceptance or other direction from a building or fire code official.</p> <p>Note: This paragraph does not delete options to obtain approval from the Department or its authorized agents for specific circumstances that differ from conditions which are more generally prescribed in the above–listed codes.</p> <p>(d) All requirements that specify providing information to a building or fire code official, unless that official requests the information.</p> <p>(e) All requirements that address construction in flood hazard areas.</p> <p>(f) All requirements that address construction of detached one– or two–family dwellings.</p> <p>(g) All requirements that specify obtaining a permit or certificate of occupancy.</p>	

IFC Code Sections	SPS 361 / 2009 IFC	2012 IFC Changes	2015 IFC Changes	Comments
101	<p>The 2012 IFC was completely reorganized into parts to make it easier for its users:</p> <p>Part I – Administrative Part II – General Safety Provisions Part III – Buildings and Equipment Design Features Part IV – Special Occupancies and Operations Part V – Hazardous Materials Part VI – Referenced Standards Part VII - Appendices</p>		<p>Chapter 11 is now Chapter 20 Chapter 12 is now Chapter 21 Chapter 13 is now Chapter 22 Chapter 14 is now Chapter 33 Chapter 15 is now Chapter 24 Chapter 16 is now Chapter 25 Chapter 17 is now Chapter 26 Chapter 18 is now Chapter 27 Chapter 19 is now Chapter 28 Chapter 20 is now Chapter 29 Chapter 21 is now Chapter 30 Chapter 22 is now Chapter 23 Chapter 23 is now Chapter 32 Chapter 24 is now Chapter 31 Chapter 25 is now Chapter 34 Chapter 26 is now Chapter 35 Chapter 27 is now Chapter 50 Chapter 28 is now Chapter 51 Chapter 29 is now Chapter 37 Chapter 30 is now Chapter 53 Chapter 31 is now Chapter 54 Chapter 32 is now Chapter 55 Chapter 33 is now Chapter 56 Chapter 34 is now Chapter 57 Chapter 35 is now Chapter 58 Chapter 36 is now Chapter 59 Chapter 37 is now Chapter 60 Chapter 38 is now Chapter 61 Chapter 39 is now Chapter 62 Chapter 40 is now Chapter 63 Chapter 41 is now Chapter 64 Chapter 42 is now Chapter 65 Chapter 43 is now Chapter 66 Chapter 44 is now Chapter 67 Chapter 45 is now Chapter 36 Chapter 46 is now Chapter 11 Chapter 47 is now Chapter 80</p>	<p>Chapter 7 is renamed from: <i>Fire-Resistance Rated Construction to:</i> <i>Fire and Smoke Protection Features</i></p>

IFC Code Sections	SPS 361 / 2009 IFC	2012 IFC Changes	2015 IFC Changes	Comments
CHAPTER 2 - DEFINITIONS				
202		Requirements for the various types of medical or occupant care and their occupancy classifications are now based on defined terms, the number of persons, and whether persons are capable of self-preservation.		
PART II - GENERAL SAFETY PROVISIONS				
CHAPTER 3 - GENERAL REQUIREMENTS				
307.1.1		Requirements for open burning were clarified to recognize prescribed burns in wildland areas.		
312.3			This change authorizes the code official to approve barriers other than posts.	
315.6, 605.12			This change prohibits storage in air-handling plenums. Abandoned material and wiring cables must be removed from plenums.	
316.4		A physical guard is required for certain obstructions on roofs with a less than 30 degree slope.		
317.1		The IFC has new requirements to address fire safety concerns of roof gardens and landscaped roofs.		
CHAPTER 4 - EMERGENCY PLANNING AND PREPAREDNESS				
403			This section has been extensively revised and the content updated for consistency. To assist the fire code official, many portions of this chapter have been relocated in an attempt to consolidate into one section all of the requirements for emergency preparedness.	
PART III - BUILDING AND EQUIPMENT DESIGN FEATURES				
CHAPTER 5 - FIRE SERVICE FEATURES				
503.4.1		Fire code official approval is required before a traffic calming device can be constructed.		
506.1, 607.5		The IFC has new requirements for nonstandard and standard keys for use by the fire service on elevators.		
508.1.5		Supplemental documentation for use by firefighters and emergency responders is now required in buildings that require a fire command center.		
510.1		The requirements formerly in Appendix J are now		

IFC Code Sections	SPS 361 / 2009 IFC	2012 IFC Changes	2015 IFC Changes	Comments
		mandatory, and a new exception to the emergency responder radio coverage system addresses the operation of portable radios in certain facilities.		
CHAPTER 6 - BUILDING SERVICES AND SYSTEMS				
604.1			This change brings additional requirements Related to emergency and standby power systems from the IBC into the IFC to provide for consistency and uniform enforcement. Load-transfer timing and duration are both quantified to assist the fire code official. Criteria have been added for Group 1-2 occupancies that are located in flood hazard areas.	
604.2.6 IBC 407.10			Essential electrical systems must comply with IBC Chapter 27 and NFPA 99. This change provides a clear path for the designer to know which standards apply when he or she is designing an essential electrical system for a Group I-2 occupancy.	
604.5		The requirements formerly in Appendix J are now mandatory, and a new exception to the emergency responder radio coverage system addresses the operation of portable radios in certain facilities.		
605.11		Requirements for the installation of solar photovoltaic power systems on the building roofs are now established in the IFC. These requirements do not apply to buildings regulated by the IRC.		
605.11			The requirements for solar PV systems have been clarified and coordinated with the IBC and NFPA 70.	
606.12			The revisions to Section 606.12 clarify the code requirements and add references to two International Institute of Ammonia Refrigeration (IIR) standards and one American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. (ASHRAE) standard for design and operation of ammonia refrigeration systems.	

IFC Code Sections	SPS 361 / 2009 IFC	2012 IFC Changes	2015 IFC Changes	Comments
607.6			This is a new requirement to ensure that devices designed to prevent water from infiltrating into fire service access elevator hoistways and occupant evacuation elevator hoistways are properly maintained.	
609.2			Type I exhaust hoods are not required over electric cooking appliances when the appliances produce a minimal amount of grease-laden vapors.	
609.3.3.2			This section references a new standard that addresses the cleaning of commercial cooking exhaust hoods and ducts.	
609.4			Listed flexible connectors are required between the fixed fuel-gas piping and cooking appliances on casters or other appliances that are moved for cleaning.	
610		Cooking oil storage tanks in commercial kitchens must comply with new Chapter 6 requirements for these installations and Chapter 57.		
611			A new Section 611 on hyperbaric facilities has been added to the IFC. According to the provisions of this section, these facilities shall be inspected, tested and maintained in accordance with NFPA 99. Records shall be kept and made available to the fire code official.	
CHAPTER 7 - FIRE AND SMOKE PROTECTION FEATURES				
CHAPTER 8 - INTERIOR FINISH, DECORATIVE MATERIALS AND FURNISHINGS				
803.5.2		Requirements for new textile wall and ceiling coverings have been added.		
806.2		An alternative method of evaluating the flame propagation of artificial vegetation or foam plastics and plastic signs in Group A occupancies is now recognized in the IFC.		
807			The requirements for decorative materials other	

IFC Code Sections	SPS 361 / 2009 IFC	2012 IFC Changes	2015 IFC Changes	Comments
			than decorative vegetation have been reorganized and clarified.	
808.4		Lockers constructed of combustible materials must comply with the Chapter 8 requirements when they are an interior finish component.		
CHAPTER 9 - FIRE PROTECTION SYSTEMS				
901.4.1			The code has been clarified concerning how an inspector can determine if a fire protection system is to be considered a “required” system or a “nonrequired” system.	
901.4.6		When provided, rooms housing fire protection systems must be adequately sized to facilitate maintenance.		
901.8.2			Existing 1½-inch hose lines can be removed under certain circumstances.	
901.9		Notice to the fire code official is now required when an alarm monitoring service is terminated or changed.		
903.2.1			When fire sprinklers are required in a Group A occupancy located on a story other than the level of exit discharge, fire sprinklers must be installed on all stories leading to all levels of exit discharge that are used by the Group A occupancy.	
903.2.1.6			Fire sprinklers are now required on all floors between the occupied roof and the level of exit discharge when assembly uses occur on the rooftop of buildings and the occupant load exceeds 100 for Group A-2 or 300 for other Group A occupancies.	
903.2.1.7			When multiple Group A-1, A-2, A-3 or A-4 fire areas share egress paths, the occupant load will be combined for determining if a fire sprinkler system is required. The occupant load threshold is 300 or more.	
903.2.2		Automatic sprinkler requirements for ambulatory care facilities must protect the floor housing the facility.		
903.2.4, 903.2.7, 903.2.9		Automatic sprinkler systems are now required in occupancies where upholstered furniture or mattresses are manufactured, stored, or displayed.		
903.2.9			This code change provides a specific definition for	

IFC Code Sections	SPS 361 / 2009 IFC	2012 IFC Changes	2015 IFC Changes	Comments
			commercial motor vehicles, which is applicable when the fire code official is determining whether a fire sprinkler system is required in specific occupancies.	
903.2.11.1.3		Basements that are modified by the addition of a wall, partition, or fixture that can obstruct fire streams will require automatic sprinkler protection.		
903.2.11.2		Automatic sprinkler protection requirements for rubbish and linen chutes are clarified and improved.		
903.2.11.3			This section has been revised to clarify how the height of a building is to be measured and that the section applies to buildings that have one or more stories. The exception for airport control towers has been deleted.	
903.3.1.1.1			This change introduces the concept of Machine Room-Less elevators (MRLs) to the IFC and provides correlation with ASME A17.1-2007/CSA B44-07. In the 2012 code, sprinkler exemptions are currently provided for elevator machine rooms and machinery spaces. This change expands the exemption to the control rooms and control spaces associated with occupant evacuation elevators. Additionally, the code has been changed regarding area smoke detection and fire command center requirements to reflect the defining of elevator control rooms and control spaces.	
903.3.1.1.2			This new section provides criteria for not installing sprinklers in bathrooms of specific Group R occupancies.	
903.3.1.2			This change correlates Group R limitations on height with the scope of NFPA 13R.	
903.3.1.2.2, 1027.6, 1104.22			The intent of Section 903.3.1.2.2 is to clarify that when an NFPA 13R sprinkler system is used, additional heads are required in the open-ended corridor (breezeway). An associated change is in Section 1027.6 for exterior stairways and ramps. To correlate the open-ended corridor concept in existing buildings with these changes, Section 1104.22 has been changed through the deletion of exception 1, which allows the open ended corridor criteria to dictate the solution.	
903.3.5.2		Secondary water supplies must be designed to operate automatically.		

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903.3.8			This change reduces the number of sprinkler heads that can be used in a limited area sprinkler system from 20 heads to 6 heads. This change provides additional criteria regarding the use of these systems.	
904.1.1, 906.3		Personnel who perform maintenance on portable fire extinguishers or alternative fire-extinguishing systems must be certified by the jurisdiction or other approved organization.		
904.2, 904.11			This change recognizes automatic water mist systems as an alternative, on a limited basis, to automatic fire sprinkler systems. Automatic water mist systems are most commonly used for special protection applications for special hazard applications such as computer room subfloors and machinery spaces.	
904.3.2		When two or more alternative automatic fire-extinguishing systems are required to protect a hazard, all of the systems must be designed to simultaneously operate.		
904.13			UL 300A has been added to the IFC, and the new definition of Institutional Occupancy Group 2 Condition 1 (Nursing Homes, Assisted Living, etc.) from the IBC for an extinguishing system within the domestic cooking hood of such occupancy has been incorporated.	
905.4		Requirements Class I standpipe rooftop connections and at Open Mall buildings were clarified.		
906.1		With the exception of Group R-2 uses, portable fire extinguishers are required in any occupancy, regardless of whether it is protected by an automatic sprinkler system. R-2 occupancies can eliminate the portable fire extinguishers in many public and common areas if an extinguisher is provided within each dwelling unit.		
907.1.2			The fire alarm designer is now required to provide the design minimum audibility level for occupant notification, and the phrase “where applicable” has been added to the charging statement to clarify that not all items shown in the list may be applicable for every installation.	
907.2.1		Requirements for a fire alarm system in a building		

IFC Code Sections	SPS 361 / 2009 IFC	2012 IFC Changes	2015 IFC Changes	Comments
		housing two or more Group A occupancies are now based on whether the occupancy requires separation by the IBC.		
907.2.1.2		Mass notification fire alarm signals in large stadiums, arenas, and grandstands require captioned messages.		
907.2.3		An emergency voice/alarm communications system is now required in Group E occupancies with an occupant load of 30 or more.		
907.2.3			The threshold for requiring a manual fire alarm system has been raised from 30 occupants to 50. The emergency voice/alarm communication system requirement has been raised to 100 occupants.	
907.2.6, 907.5.2.1, 907.5.2.3			The change to 907.2.6 Exception 2 links the use of “private mode” signaling under NFPA 72 to the fire safety and evacuation plan requirements of Chapter 4. Section 907.5.2.1 has been revised to allow the use of a private mode audible alarm in critical care areas. Section 907.5.2.3 has been revised to allow for the substitution of an audible alarm for a visual alarm in critical care areas.	
907.2.6.1.1		Fire alarm and detection systems and wireless smoke alarms are now recognized for installation in buildings regulated by the IFC and the <i>International Residential Code for One- and Two-Family Dwellings and Townhomes</i> (IRC).		
907.2.9.3			The addition of the language “occupancies operated by a college or university for student or staff housing” is intended to clarify this section and the requirement for automatic smoke detection.	
907.2.11.3, 907.2.11.4			This new section provides designers, plan examiners and field inspectors with criteria for locating smoke alarms in relation to cooking appliances and bathrooms. By properly locating smoke alarms, the number of nuisance alarms may be reduced.	
907.2.11.7			This new section provides an option for using a smoke detection system in lieu of single-station and multiple-station alarms in Groups R-2, R-3, R-4 and I-1.	
907.2.14			This change clarifies that smoke detection in atriums is to be based on the rational analysis prescribed in Section 909.4 and that a generic requirement for	

IFC Code Sections	SPS 361 / 2009 IFC	2012 IFC Changes	2015 IFC Changes	Comments
			installation of smoke detection is not necessarily warranted.	
907.2.22.1, 907.2.22.2			This new section provides specific criteria regarding smoke detector locations in airport traffic control towers. A different criterion is used depending on whether or not the airport traffic control tower has single or multiple exits and if it is sprinklered.	
907.4.1		Fire alarm control units require protection using an approved smoke detector.		
907.5.2.1.1		The strength of audible fire alarm notification devices now must now meet a minimum sound-pressure level.		
908.7		Carbon monoxide (CO) alarms are required in Group R and I occupancies with fuel-burning appliances or attached garages in new and existing buildings.		
909.4.7			This new section requires the analysis of multiple mechanical smoke control systems. Buildings using smoke control systems may have more than one type of smoke control system, and the interactions of these systems must be evaluated in the design.	
909.6.3			This section has been added for clarification of the responsibility and authority between the fire code official and the building official in relation to smoke control systems.	
909.12.1, 909.20.6			This modification allows the fire code official the discretion to bypass individual components from the weekly preprogrammed smoke control verification testing. It further requires testing of all bypassed components on a semiannual basis.	
909.21			This change provides the option of pressurizing the elevator hoistway in lieu of enclosing the elevator lobby. The entire section has been added to the IFC to facilitate coordination between code officials. Additionally, four exceptions have been added to the pressurization requirements that in effect provide an alternative way for the smoke control system to be designed.	
910			This section has been extensively rewritten as a result of the work done by the Code Technology Committee and specifically the Roof Vent Study Group. It provides direction on Group F-1 and S-1 occupancies	

IFC Code Sections	SPS 361 / 2009 IFC	2012 IFC Changes	2015 IFC Changes	Comments
			greater than 50,000 square feet of undivided area and high-piled combustible storage. Criteria for using either smoke and heat vents or mechanical smoke removal are provided.	
913.2.2			This new provision references UL Standard 2196, which provides for survivability of fire pump power-supply wiring.	
915			The requirements for carbon monoxide detection have been completely rewritten to clarify the provisions, relocated to a new Section 915, and expanded to address classrooms in Group E occupancies.	
CHAPTER 10 - MEANS OF EGRESS				
Chapter 10			The chapter has been reformatted with the provisions for egress requirements from a space or story being consolidated into a new Section 1006 and a new Section 1007.	
1004.1.1			The determination of the cumulative design occupant load for intervening spaces, adjacent levels and adjacent stories has been clarified and combined into a single section. A subsection has been added to address egress from adjacent stories to clarify that the number of occupants from adjacent stories are not added together unless there is a convergence of egress at an intermediate level by occupants leaving a story from above and below that point.	
1004.1.2, Table 1004.1.2		An occupant load factor for museums and exhibit galleries has been added. The “assembly” factors that were previously used did not generally provide an occupant load that was reflective of the actual use of the space.		
Table 1004.1.2			This change has revised the mercantile occupant load factor and created one factor for all floors.	
1005.1		The exit width/capacity requirements are arranged in a logical and well-organized layout. Reduced exit width factors have been established for sprinklered buildings with an emergency voice/alarm communication system.		
1006, 1007			This modification has consolidated the egress requirements for rooms and spaces along with those for stories into a single location. It has also created a	

IFC Code Sections	SPS 361 / 2009 IFC	2012 IFC Changes	2015 IFC Changes	Comments
			single section to deal with the number of exits (Section 1006) and a separate section (Section 1007) to deal with the arrangement and separation requirements.	
1007.1			This section now provides specific information regarding the point where exit separation is to be measured. Where three or more means of egress are required, the code restores performance language to ensure the egress paths are adequately separated.	
1008.1.2		The occupant load used to determine the door swing requirement is not to be based on an assigned or distributed occupant load, but on the entire occupant load of the space served by the door.		
1009, 1010, 202		Revisions have been made throughout the code to coordinate the requirements for when unenclosed stairways can be used as a part of the means of egress and how they are regulated.		
1009.8			This change clarifies that a two-way communication system may serve multiple elevators and that the systems are not required at service elevators, freight elevators, or private residence elevators.	
1010.1.9			Numerous revisions throughout these locking provisions help clarify requirements and their application by using consistent terminology. These changes allow an existing locking system exception for main doors that are not located at the exterior of the building.	
1011.2		Low-level exit signs must be provided in the egress system serving guest rooms in an R-1 occupancy. These additional exit signs are required to be installed if traditional exit signs are required.		
1011.15, 1011.16			This section has been added to list the locations where ladders can be used for access. Permanent ladders must follow the construction requirements from the IMC in order to provide consistent installation and a safe usable ladder.	
1014.8			This section now provides guidance and enforceable language so the building official can determine when a pair of intermediate handrails begins to obstruct the required egress width of a stairway. This helps to clarify when the width of the stair must be increased	

IFC Code Sections	SPS 361 / 2009 IFC	2012 IFC Changes	2015 IFC Changes	Comments
			due to the two intermediate handrails reducing the available egress width.	
1016.2			This modification allows occupant egress through an elevator lobby provided access to at least one exit is available without the occupant passing through the lobby. It addresses the extent of the required elevator lobby protection.	
1017.2.2			This modification allows an increased exit access travel distance within Group F-1 or S-1 occupancies meeting specific requirements. Also, it restores a travel distance that was allowed in the 2006 code but not allowed in the 2009 or 2012 editions.	
1018.3, 1018.5			The required width of aisles in Groups B and M occupancies as well as aisles in other occupancies are now tied to the widths required for corridors and not just to the capacity based on the occupant load served.	
1020.2			A new exception helps to clarify the width requirements for corridors within Group I-2 occupancies for areas where bed or stretcher movement is not necessary.	
1021.2		A new section clarifies when a single exit is permitted within or from an individual dwelling unit. A separate revision allows exits to be arranged where they serve a portion of a story instead of requiring that all of the required exits from the story be accessible to all of the occupants.		
1022.5		Penetrations of the outside membrane of the fire barrier enclosing an exit stair or ramp are permitted when the penetration is properly protected.		
1023.3.1			An interior exit stairway is now permitted to continue directly into an exit passageway without the need for a fire door assembly to separate the two elements.	
1029.13.2.2.1			This new section limits the variation allowed between adjacent risers within a stepped aisle. The previous code did not limit the variation for these risers.	
1030.2		Requirements for exit reliability, security, or locking devices on means of egress components, furnishings in exit paths were revised to improve their intent.		
CHAPTER 11 - CONSTRUCTION REQUIREMENTS FOR EXISTING BUILDINGS				
1102.1		Requirements for applying the retroactive		

IFC Code Sections	SPS 361 / 2009 IFC	2012 IFC Changes	2015 IFC Changes	Comments
		requirements in existing buildings were clarified.		
1103.4.1			Retroactive construction of a 1-hour fire-resistance-rated separation is now required in existing hospitals and jails to protect vertical openings. Alternatives have been included that can be used in lieu of the separation to mitigate the hazard created by the vertical openings.	
1103.7.6			The installation of interconnected smoke alarms within dwelling units along with fire-resistance-rated separation of dwelling units is allowed as an alternative to the retroactive installation of a manual fire alarm system throughout the building in existing Group R-2 occupancies.	
1103.8.1		Requirements for the installation and maintenance of smoke alarms in Group R-2 occupancies were clarified to address existing buildings.		
1104.16.5.1		Existing exterior fire escapes require an inspection by a registered design professional or persons acceptable to the fire code official no more than every 5 years.		
1105			Retroactive construction requirements have been added to the IFC to provide a minimum level for fire and life safety in existing Group I-2 occupancies.	
				chapters 12 - 19 reserved
PART IV - SPECIAL OCCUPANCIES AND OPERATIONS				
CHAPTER 20 - AVIATION FACILITIES				
				N/A
CHAPTER 21 - DRY CLEANING				
2108.2		A new exception allows dry cleaning plants using Class III-A or Class III-B combustible liquids in nonsprinklered buildings.		
CHAPTER 22 - COMBUSTIBLE DUST-PRODUCING OPERATIONS				
CHAPTER 23 - MOTOR FUEL-DISPENSING FACILITIES AND REPAIR GARAGES				
				N/A

IFC Code Sections	SPS 361 / 2009 IFC	2012 IFC Changes	2015 IFC Changes	Comments
CHAPTER 24 - FLAMMABLE FINISHES				
CHAPTER 25 - FRUIT AND CROP RIPENING				
CHAPTER 26 - FUMIGATION AND INSECTICIDAL FOGGING				
CHAPTER 27 - SEMICONDUCTOR FABRICATION FACILITIES				
2703.10.1.2		Combustible semiconductor tools such as wet benches no longer require an automatic fire-extinguishing system when they are constructed of listed polymeric materials.		
2703.16		Sub-atmospheric gas systems (SAGS) installed and operated in accordance with NFPA 318 are permitted in semiconductor fabrication facilities.		
2705.3.1		Service corridors are not required when the amount of hazardous production material being transported is less than the maximum allowable quantity per control area.		
CHAPTER 28 - LUMBER YARDS AND AGRO-INDUSTRIAL, SOLID BIOMASS AND WOODWORKING FACILITIES				
CHAPTER 29 - MANUFACTURE OF ORGANIC COATINGS				
CHAPTER 30 - INDUSTRIAL OVENS				
CHAPTER 31 - TENTS AND OTHER MEMBRANE STRUCTURES				
3103.9.1			Temporary multistory tents and membrane structures are now required to comply with the structural requirements in the IBC.	
3105			Temporary stage canopies are now permitted and regulated under Chapter 31 and must have a	

IFC Code Sections	SPS 361 / 2009 IFC	2012 IFC Changes	2015 IFC Changes	Comments
			structurally sound design.	
CHAPTER 32 - HIGH-PILED COMBUSTIBLE STORAGE				
3203.2			A building containing Class I commodities stored on plastic pallets will now require a fire sprinkler system to be designed based on the NFPA 13 sprinkler criteria. The allowance to include any solid-deck polyethylene pallets as acceptable for Class I commodities has been deleted.	
3206.4.1			NFPA 13 provisions are now referenced to address the use of plastic pallets in high-piled combustible storage. Plastic pallets can affect the classification of the commodity.	
3206.9.3			Specific limitations are now provided for dead-end aisles in high-piled combustible storage areas. These limitations are more restrictive than the common path of egress travel limitations due to hazards associated with high-piled combustible storage.	
3208.3.1		The installation of approved devices designed to protect flue spaces from obstructions can be prescribed by the fire code official.		
CHAPTER 33 - FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION				
3306.2			Safety requirements for the purging and cleaning of flammable gas piping systems have been added to the 2015 IFC.	
CHAPTER 34 - TIRE REBUILDING AND TIRE STORAGE				
CHAPTER 35 - WELDING AND OTHER HOT WORK				
3504.1.7, 3510			Requirements for hot work on tanks containing flammable and combustible liquids is now included in the 2015 IFC.	
CHAPTER 36 - MARINAS				
CHAPTER 37 - COMBUSTIBLE FIBERS				
				chapters 38 - 49

IFC Code Sections	SPS 361 / 2009 IFC	2012 IFC Changes	2015 IFC Changes	Comments
				reserved
PART V - HAZARDOUS MATERIALS				
CHAPTER 50 - HAZARDOUS MATERIALS - GENERAL PROVISIONS				
Table 5003.1.1(1)		The IFC and IBC provisions for combustible dusts will require the permit applicant to provide the code official with a technical report and opinion that assesses the hazards of the dust and process.		
Table 5003.1.1(1)			Table 5003.1.1(1) contains several revisions affecting consumer fireworks, combustible fibers, unstable reactive materials, alcohol-based hand rubs and gas rooms.	
5003.12		Outdoor storage and use of hazardous materials can now be placed adjacent to exposures when they are isolated by a 2-hour fire-resistive line-of-sight barrier and the MAQ is not exceeded.		
CHAPTER 51 - AEROSOLS				
5101.4, 5104			Aerosol products are now allowed in plastic containers up to 33.8 fluid ounces, or 1 liter, in size. Specific product criteria must be met if the plastic containers exceed 4 fluid ounces.	
CHAPTER 53 - COMPRESSED GASES				
				N/A
CHAPTER 54 - CORROSIVE MATERIALS				
CHAPTER 55 - CRYOGENIC FLUIDS				
CHAPTER 56 - EXPLOSIVES AND FIREWORKS				
CHAPTER 57 - FLAMMABLE AND COMBUSTIBLE LIQUIDS				
				N/A
CHAPTER 58 - FLAMMABLE GASES AND FLAMMABLE CRYOGENIC FLUIDS				
				N/A

IFC Code Sections	SPS 361 / 2009 IFC	2012 IFC Changes	2015 IFC Changes	Comments
CHAPTER 59 - FLAMMABLE SOLIDS				
CHAPTER 60 - HIGHLY TOXIC AND TOXIC MATERIALS				
CHAPTER 61 - LIQUIFIED PETROLEUM GASES				
				N/A
CHAPTER 62 - ORGANIC PEROXIDES				
CHAPTER 63 - OXIDIZERS, OXIDIZING GASES AND OXIDIZING CRYOGENIC FLUIDS				
CHAPTER 64 - PYROPHORIC MATERIALS				
				See SPS 314
CHAPTER 65 - PYROXYLIN (CELLULOSE NITRATE) PLASTICS				
CHAPTER 66 - UNSTABLE (REACTIVE) MATERIALS				
CHAPTER 67 - WATER-REACTIVE SOLIDS AND LIQUIDS				
				chapters 68 - 79 reserved
PART VI - REFERENCED STANDARDS				
CHAPTER 80 - REFERENCED STANDARDS				
APPENDICES				

IFC Code Sections	SPS 361 / 2009 IFC	2012 IFC Changes	2015 IFC Changes	Comments
Appendix A				
Appendix B, B105			Criteria have been added to Appendix B that specify the amount of reduction available for each type of fire sprinkler system and establish the method for determining the minimum water supply requirement and duration based on the reduced fire-flow requirement.	
Appendix C			The revisions to Appendix C provide refinement of the fire hydrant spacing requirements and add footnotes that increase hydrant spacing based on the installation of an automatic sprinkler system.	
Appendix D		Measurements of building height for aerial apparatus access roadways are based on the grade plane.		
Appendix E				
Appendix F				
Appendix G				
Appendix H				
Appendix I				
Appendix J	Emergency Responder Radio Coverage	Building Information Signs - An optional appendix offers a method of presenting building information to emergency responders using a standardized format.		
Appendix K			The new Appendix K addresses retroactive construction requirements for existing Ambulatory Care Facilities. The appendix requirements are in addition to the retroactive construction requirements in IFC Chapter 11.	
Appendix L			This new appendix provides criteria for the design, installation and testing of Fire Fighter Air Replenishment Systems (FARS) for use during firefighting operations.	
Appendix M			An automatic fire sprinkler system is required to be retroactively installed in existing high-rise buildings.	

IFC Code Sections	SPS 361 / 2009 IFC	2012 IFC Changes	2015 IFC Changes	Comments

a. Published sources:

- 2009 *International Fire Code*[®] – International Code Council[®] (ICC)
- 2012 *International Fire Code* – International Code Council
- 2015 *International Fire Code* – International Code Council
- Significant Changes to the International Fire Code, 2012 Edition* – International Code Council
- Significant Changes to the International Fire Code, 2015 Edition* – International Code Council

b. Changes that are not addressed because they do not apply in Wisconsin include the changes for all of Chapter 1 Scope and Administration other than 102.6.

c. Chapter SPS 361 & 362 of the *Wisconsin Administrative Code* (Register, December 2011)

Prepared by Dan Smith

File Reference: SPS 361/Summary 2012 & 2015 IFC changes

Summary of 2012 and 2015 IMC Changes^a Significant^b in Wisconsin^c and Comparison With Wisconsin’s Requirements^d

IMC Code Sections	Description		Comments	
	SPS 364 Section Topic	2012 IMC Changes		2015 IMC Changes
		DIS Recommendations		
CHAPTER 1 - SCOPE AND ADMINISTRATION				
	364	<p>2006 IMC was amended by Comm 64.0101, which limited use of IMC Ch. 1. “Except for IMC section 102.8, the requirements in IMC chapter 1 are not included as part of this chapter”. For whatever reason, that amendment was not carried over to the 2009 IMC/SPS Chapter 364.</p> <p>SPS 362.0100 Administration. The requirements in IBC chapter 1 are not included as part of this code.</p> <p>SPS 363.0101 Administration and enforcement. Except for IECC section 101.5.2, the requirements in IECC sections 101 and 103 to 109 are not included as part of this chapter.</p> <p>SPS 365.0101 Administration. Except for IFGC section 102.8, the requirements in IFGC chapter 1 are not included as part of this chapter.</p> <p>SPS 366.0101 Administration. Except for IEBC section 102.4, substitute the following wording for the requirements in IEBC chapter 1:</p>	9	
102.3	Maintenance	ASHRAE/ACCA/ANSI Standard 180 is now specified for the inspection for maintenance of an HVAC system.		
CHAPTER 2 - DEFINITIONS				
202	Environmental Air	The definition of <i>environmental air</i> has been expanded through the addition of parking garage exhaust.		
	364.0202		All definitions should be moved to 364.0202 as was done with SPS 362	
	364.0202	SPS Table 364.0403 references "living areas" under the "heading dwellings, single and multiple", but there is no definition of a "living area". Define under IMC 202, what a "living area" is. An interpretation is inappropriate. Add definition similar to "living area" Those areas within a dwelling unit involving living rooms, bedrooms, dens and/or family rooms.”	21	

IMC Code Sections	SPS 364	2012 IMC Changes	2015 IMC Changes	Comments
	Topic	DIS Recommendations		

CHAPTER 3 - GENERAL REGULATIONS				
304.11	Fall-Arresting Restraint Systems		The exception allows for fall-arresting restraint systems to be employed instead of guards on roofs.	
306.1	Access		More than just appliances are now required to have access for inspection, service, replacement and repair.	
306.5	Equipment and Appliances on Roofs or Elevated Structures	It has been clarified that permanent access is required to equipment and appliances on a roof or elevated structure higher than 16 feet above grade, and required clearances are now provided to assure access to ladders required for access to roofs or elevated structures.		
307.2.5	Condensate Drain Line Maintenance		The code requires that condensate drains be configured or equipped to allow maintenance of the drain without the drain pipe or tubing being cut.	
307.3	Condensate Pumps in Uninhabitable Spaces		Condensate pumps located in uninhabitable spaces and used with condensing fuel-fired appliances and cooling equipment must be connected to the appliance or equipment served by the pump to prevent water damage in the event of pump failure.	
308.5	Labeled Assemblies	Allowable clearance reductions must now be based on listed and labeled reduced-clearance protective assemblies in accordance with UL 1618.		
309	364.0309	IMC 309 references Minimum Indoor Temperature, while SPS 364.0309 references Minimum Inside Temperature. SPS 364.0309 should modify its wording from Inside to Indoor so as to compliment the written code language. Modify WI amendment to compliment wording of the IMC.		12
309	364.0309	Spot heating is not recognized by code. Add amendment SPS 364.0309 Spot Heating. Spot heating may be used to heat individual fixed work stations in industrial buildings in lieu of heating the entire space as specified IMC 309, provided the inside design temperature at the fixed work station is at least 60° F. Work areas such as saw mills where doors open often, make maintaining a constant temperature difficult & expensive.		5

IMC Code Sections	SPS 364	2012 IMC Changes	2015 IMC Changes	Comments
	Topic	DIS Recommendations		

CHAPTER 4 - VENTILATION

401.2, 407.1 Table 403.3.1.1	Ventilation Required		Occupancies including hospitals, nursing homes, detoxification facilities and ambulatory care facilities must be ventilated in accordance with a new standard, ASHRAE 170.	
401.4	Intake Opening Location	The minimum clearance between an air intake opening and any public way is now measured from the opening to the lot line, not to the centerline of the public way.		
401.4 Items 2 & 3	SPS 364.0401(4)(a & b)	364.0401(4)(b) does not include language, "...except as specified in Item 3 or Section 501.2.1" as is associated with IMC 401.4 Item 2 which it replaces, thus the application of IMC 401.4 Item 3 is negated since 364.0401(4)(a) states "air intakes ...shall comply with ALL of the following." If the amendment is maintained, 364.0401(4)(b) shall add the following wording so that the requirement reads, "Intake openings shall be located not less than 10 ft. horizontally from any hazardous or noxious containment source except as specified in Item 3 or Section 501.2.1."		62
	SPS Tables 364.0402 and 364.0403	The code does not address how aircraft hangars are to be ventilated. Division has typically allowed the use of natural ventilation for single aircraft hangars, with NO immediately adjacent occupancies (pilots lounge, office, sleeping area, etc.). Otherwise, the space would need to be exhausted similar to an "enclosed parking garage". See Division Question & Answer on this matter. Add occupancy to tables SPS 364.0402 & 364.0403, and address requirement of 4% openings & min. 0.5 cfm/sf exhaust respectively.		42
403.2.1 Table 403.3.1.1	Recirculation of Air		The revisions to Section 403.2.1 and notes b and g of Table 403.3.1.1 clarify that recirculation of air within a space is permitted.	
403	SPS Table 364.0403	The previous code under Comm 64.05 for seasonal occupancies "dining & recreational areas", "Club Houses", & "Drive-ins" were recognized 15 sf/person. There was no modification made for the new format of the IMC which involves the # of people per 1,000 sf. Change 15 to 70 in third column of Table 364.0403. Revise SPS 364.0403 for "dining & recreational areas" to 70.		20
403	SPS Table 364.0403	Table has "Elevator cars" listed as an "Occupancy Classification" along with a reference to a footnote "m". The table does not contain any explanation of what footnote "m" is to address. Under the previous 2006 code, Comm Table 364.0403 footnote "m" stated, "Refer to the IMC Chapter 5 for exhaust requirements". IMC Chapter 5 has no specific exhaust requirement for elevator cars. Replace language to reflect IMC Table 403.3 entry which requires Minimum Exhaust Airflow Rate of 1.0 cfm/sf from elevator car.		27
403	SPS Table 364.0403	As adopted and printed for use by the public and the Dept. for enforcement purposes, there is no		

IMC Code Sections	SPS 364	2012 IMC Changes	2015 IMC Changes	Comments
	Topic	DIS Recommendations		
		footnote "c" listed for "automotive service and repair garages" (although this was in error based on review of past codes). Because of this, transfer of air from a automotive service/repair area cannot be prohibited per SPS 364.0403(4). (Note: This could be a dangerous situation depending on circumstances). Add footnote "c" to Table 364.0403 Occupancy "Automatic service and repair garages"		29
403	SPS Table 364.0403	Table lists "automotive service and repair garages" but is not clear if this is for gasoline/diesel fueled or CNG fueled vehicles. IMC 502.16 addresses CNG. Add language "Automotive service & repair garages with gasoline or diesel fueled vehicle engines."		30
403	SPS Table 364.0403	Occupancies: Correctional facilities, Sleeping rooms, Food and beverage service, Kitchens (cooking), Private dwellings, single and multiple, "kitchens", "Toilet rooms and bathrooms" Utility and public spaces "Toilet rooms" footnote d and remove the comment "Outdoor air shall be provided at the rate of 1.0 cfm/net sq. ft. floor area." The should not be part of the code since clearly the # of toilet fixtures for the toilet room dictates the amount of air transfer or make-up air required to be directed to the space.		63
403	SPS Table 364.0403	Due to changes in typical vehicle fuel, current language "Automotive service and repair garage" is inadequate. CNG per IMC 502.16 has different requirements. Add language to state, "Automotive service and repair garage for gasoline, diesel & LP Fueled Vehicles"		72
403.3	Outdoor Air and Local Exhaust Airflow Rates		The new text introduces the basic requirements of ASHRAE 62.2 related to mechanical ventilation for Group R-2, R-3 and R-4 buildings three stories or less in height.	
Table 403.3	Minimum Ventilation Rates for Nail Salons	Nail stations in nail salons must now each be provided with a source capture system.		
Table 403.3.1.1	Manicure and Pedicure Station Exhaust Rate		The revised note h to Table 403.3.1.1 recognizes new Section 502.20 for the design of manicure and pedicure station exhaust systems and also specifies the applicability to both. Note h addresses the relationship between the source capture system exhaust-flow rate and the exhaust-flow rate specified within the table for nail salons.	
	Enclosed Parking Garages	The mechanical ventilation systems required in enclosed parking garages are now permitted to be operated automatically by carbon monoxide detectors.		
404.1	Intermittent Operation		For enclosed parking garages, the ventilation	

IMC Code Sections	SPS 364	2012 IMC Changes	2015 IMC Changes	Comments
	Topic	DIS Recommendations		

	of Mechanical Ventilation Systems for Enclosed Parking Garages		system must operate continuously or must be automatically controlled for intermittent operation utilizing both carbon monoxide and nitrogen dioxide detectors. The option to detect vehicle operation or occupant presence has been deleted.	
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CHAPTER 5 - EXHAUST SYSTEMS

501.2, 506.4	Independent Exhaust System Required	Those locations where an independent exhaust system is required are now established in a single code provision.		
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501.3	Mechanical Exhaust System Discharge		The adjective “public” was added to “nuisance” to make this requirement more enforceable. The new exception correlates with Section 505.1, exception 1.	
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502.14		Exception 3 is not applicable due to the WI amendments contained in SPS Table 364.0403 for "Automotive service and repair garages." Eliminate Exception 3.		39
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502.14		The code is not clear if the exhausts associated w/ the source capture system is included as part of the min. 0.5 cfm/sf exhausts required by SPS Table 364.0403, or in addition to. Add language clarifying that the source capture exhausts are in addition to the minimum exhausts required by SPS Table 364.0403.		40
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502.14		The code is not clear as to the acceptable use of a hoses or tubes used to extend vehicle tailpipes. They are to be of suitable material to be in contact with hot tailpipes and vehicle emissions, and their layout, including the size and length, needs to be effective in conveying the contaminants to the exterior. See Division Question & Answer on this subject. Add language, complimenting current Question and Answer language issued by the Division, that recognizes that hoses or tubes, as qualified, may be used to extend vehicle tailpipes, so as to exhaust contaminants to the exterior of the building.		41
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502.20	Manicure and Pedicure Station Exhaust System		New text specifically covers manicure and pedicure stations and states exhaust requirements in addition to those in Table 403.3.1.1. In previous editions of the code, pedicure stations were not specifically called out, as the text in Table 403.3.1.1 referred only to nail salons generically.	
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504.5 504.8.4.3	Dryer Exhaust Duct Power Ventilators		New text recognizes the use of dryer exhaust duct power ventilators (DEDPVs) for	
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IMC Code Sections	SPS 364	2012 IMC Changes	2015 IMC Changes	Comments
	Topic	DIS Recommendations		
			installations that exceed the allowable exhaust duct length for clothes dryers.	
504.8.2	Dryer Exhaust Duct Installation		Instead of prohibiting all duct fasteners such as screws and rivets, the code now limits the penetration of fasteners where installed.	
505.1	Domestic Kitchen Exhaust Systems	Domestic kitchen exhaust ducts are now required to be independent of all other exhaust systems.		
505.1 505.4	Domestic Range Hoods		The scope of domestic kitchen hoods coverage has been expanded to beyond dwellings units. Domestic hoods are mandated in new Section 505.4.	
505.3	Domestic Kitchen Exhaust Systems in Multistory Buildings		New text regulates the design and construction of exhaust shafts that serve domestic kitchen exhaust systems in multistory buildings.	
506.3.7.1	Grease Duct Reservoirs	Criteria are now provided for the construction of a grease reservoir in a grease duct system where the reservoir is not a manufactured product.	A grease duct reservoir must now be the full width of the duct in all cases, and the reservoir must be provided with a drain opening.	
506.3.8	Grease Duct Cleanouts and Openings	In addition to the reformatting of previous criteria for grease duct cleanouts, gasket and sealing materials on grease duct cleanout doors must now be rated at a minimum of 1500°F.	The cleanout spacing provisions have been added to be consistent with Section 506.3.9 for horizontal ducts.	
506.3.9	Grease Duct Horizontal Cleanouts	Criteria for cleanouts serving horizontal grease ducts have been rearranged for ease of use and clarification, and several technical provisions have been added or modified.		
506.3.10	Underground Grease Duct Installation	Grease ducts installed in underground locations are now regulated based upon a number of new provisions.		
506.3.11	Grease Duct Enclosures		The code specifically prohibits the installation of fire and smoke dampers in grease ducts.	
506.3.11.2	Field-Applied Grease Duct Enclosure	Field-applied grease duct enclosure systems are now specifically prohibited from being used to reduce clearance to combustibles.		

IMC Code Sections	SPS 364	2012 IMC Changes	2015 IMC Changes	Comments
	Topic	DIS Recommendations		
506.5.1.2	In-Line Fan Location in Exhaust Ducts Serving Commercial Kitchen Hoods		New text addresses the enclosure requirements for in-line exhaust fans located in kitchen hood exhaust ducts, in effect treating them the same as ducts.	
506.5.3	Hinged Up-Blast Fans for Type I Hoods		The code now requires that hinged exhaust fans be provided with a means to limit the travel of the fan assembly to prevent injury to personnel and damage to the building and fan.	
507.1	Type I Hood Installation		A requirement has been added for Type I hood installations to comply with all aspects of a Type I exhaust system, whether the Type I hood is required by the code or installed by choice.	
507.1.1	Commercial Kitchen Exhaust Hood System Operation		The requirement for automatic activation of the exhaust system has been revised to provide the intended performance requirements and to clarify that an interlock arrangement is an alternative to automatic hood operation.	
507.1.1.1	Heat Sensors for Multiple Commercial Kitchen Hoods		New text prohibits the use of a single sensor mounted in the common ductwork for commercial kitchen hood systems having multiple hoods manifolded together.	
507.2	Type I or Type II Hood Required	A Type I or Type II commercial kitchen hood is not required for appliances with listed integral downdraft exhaust systems.		
507.2.1	Type I Hoods	Type I hoods no longer are required to be installed where complying electric cooking appliances are being used.		
507.2.1.1	Operation of Type I Hoods	A method is now required to keep the pilot burner on a gas cooking appliance from being extinguished when the kitchen exhaust fan interlock shuts off appliances.		
507.2.1.2	Exhaust Flow Rate Label for Type I Hoods	Manufacturers of listed Type I commercial cooking hoods are now required to provide information on a label attached to the hood specifying the listed minimum exhaust air flow		

IMC Code Sections	SPS 364	2012 IMC Changes	2015 IMC Changes	Comments
	Topic	DIS Recommendations		
		for the hood based upon the cooking appliance duty classification.		
507.2.2	Type II Hoods	A Type II hood is now required to be installed above all appliances that produce products of combustion but do not produce grease or smoke. An exact exhaust rate is specified for areas where a cooking appliance is being used but a Type II hood is not required.		
507.2.8	Type I Hood Grease Filters		The code now recognizes the use of disposable grease filters.	
508.1.2	Air Balance for Commercial Kitchen Ventilation Systems		This new section requires that an air balance schedule be submitted with the design plans for commercial kitchen ventilation systems.	
507.10	Hoods Penetrating a Ceiling	Field-applied grease duct enclosure systems are now specifically prohibited from being used as enclosures over the top of Type I hoods.		
510.4 510.5	Hazardous Exhaust Systems		Text in previous editions of the code that alluded to the recirculation of hazardous exhaust has been deleted. The previous exception was too broad in application, so the entire section has been formatted to clarify the scope of the exception. Previous item 7 has been revised to prescribe the method for maintaining continuous negative pressure.	
510.7	Fire Suppression Required for Hazardous Exhaust Ducts	Automatic fire suppression systems are no longer required in the exhaust ducts in semiconductor fabrication facilities.		
510.7.1.1	Hazardous Exhaust Duct Penetrations of Shafts		A pointer to the <i>International Building Code</i> (IBC) provisions for hazardous exhaust duct penetrations of shafts has been added.	
514.2	Energy Recovery Ventilation Systems		Energy recovery ventilation (ERV) systems of the coil-type heat exchanger (run-around coils) are no longer limited in their application.	

IMC Code Sections	SPS 364	2012 IMC Changes	2015 IMC Changes	Comments
	Topic	DIS Recommendations		

CHAPTER 6 - DUCT SYSTEMS				
601.4	Contamination Prevention in Plenums	Chimneys and vents are now permitted to pass through a plenum where in compliance with one of three new allowances.		
601.5	Return Air Openings		The often misunderstood provisions in previous editions of the code for return air have been relocated from a section specific to forced-air / warm-air furnaces in Chapter 9 to a more generic section in Chapter 6. The provisions have been clarified and streamlined to capture the desired intent.	
602.1	Plenums Limited to One Fire Area		The revision clarifies that a plenum in a fire area cannot be connected to a plenum in an adjoining fire area by means of transfer ducts or openings, regardless of the presence of fire dampers.	
602.2	Plenum Construction		Depending on the construction type of the building, plenums are no longer allowed to be bounded by the building materials that create the space being used as a plenum.	
602.2.1	Materials within Plenums	It has been clarified that any material or assembly that encloses a combustible material in a plenum must be noncombustible, gypsum board, or listed and labeled as part of a tested assembly or system.		
602.2.1.5	Discrete Plumbing and Mechanical Products in Plenums		The code now addresses those products that in previous editions of the code did not fall under the category of piping, wiring, ductwork, tubing, insulation and other continuous large surface area materials installed in plenums. A definition has been added to describe what is meant by discrete products.	
Table 603.4	Duct Construction Minimum Sheet Metal Thickness for Single Dwelling Units		The table for duct gages for dwelling units has been replaced with thicknesses consistent with the SMACNA sheet metal construction standard.	

IMC Code Sections	SPS 364	2012 IMC Changes	2015 IMC Changes	Comments
	Topic	DIS Recommendations		
603.7	Rigid Duct Penetrations	In relationship to the required garage/dwelling separation, only those ducts that penetrate a wall or ceiling between the dwelling and the adjacent private garage need comply with Section 603.7.		
603.9	Duct Joints, Seams, and Connections	Unlisted duct tape is no longer permitted as a sealant on nonmetallic ducts.		
603.9	Duct Joints, Seams and Connections		Duct sealant tapes used on sheet-metal ducts must be listed to UL 181B as is required for sealing tapes and mastics for flexible ducts. Snap-lock and button-lock seams are no longer exempt from the sealing requirements.	
603.17, 202	Air Dispersion Systems	Air dispersion systems as defined in Section 202 and recognized in UL 2518 are now permitted to be installed.		
CHAPTER 7 - COMBUSTION AIR				
701.2	Dampened Openings		Where dampers are installed on combustion air openings, the code now requires an interlock with the appliance to prevent operation of the appliance when the damper is closed. Manual dampers are prohibited on combustion air openings.	
CHAPTER 8 - CHIMNEYS AND VENTS				
802.9	Door Clearance to Vent Terminals		To prevent damage to the vent, door or surrounding materials, doors are not permitted to swing within 12 inches of an appliance vent terminal.	
805.3	Factory Built Chimney Offsets	The maximum offset in a factory-built chimney is now specified and the number of offsets has been limited.		
CHAPTER 9 - SPECIFIC APPLIANCES, FIREPLACES AND SOLID FUEL-BURNING EQUIPMENT				
Chapter 9		DNR has rules limiting waste oil burners to 500,000 btu/hr per unit. Exceeding that size requires that special venting be addressed. Add wording or note within the mechanical code referencing the DNR restrictions. Statute SUBCH G of CH. NR 679		

IMC Code Sections	SPS 364	2012 IMC Changes	2015 IMC Changes	Comments
	Topic	DIS Recommendations		
		http://dnr.wi.gov/files/pdf/pubs/wa/wa233.pdf		19
901.4	Fireplace Accessories	Fireplace accessories must now comply with UL 907, which has been added to Chapter 15.		
903.4	Gasketed Fireplace Doors		Gasketed (sealed) doors are prohibited on factory-built fireplaces except where the fireplaces are listed for use with such doors.	
928	Evaporative cooling equipment	Requirements for the installation of evaporative coolers have been introduced into the IMC in the new Section 928.		
CHAPTER 10 - BOILERS, WATER HEATERS AND PRESSURE VESSELS				
CHAPTER 11 - REFRIGERATION				
1101.10	Locking Access Port Caps	Locking caps are no longer required on refrigerant access ports if the refrigeration equipment is located in a secured location.		
1102.3	Refrigerant Access Port Protection		The requirement for making refrigerant access ports tamper resistant has been expanded to apply to existing systems when service to such systems involves adding or removing refrigerant.	
1105.6, 1105.6.3	Machinery Room Ventilation	The minimum ventilation rates in an ammonia machinery room must now be in accordance with IIAR2.		
1106.4	Flammable Refrigerants	The ventilation requirements of Section 1106.3 for ammonia machinery rooms are now mandatory in order to be exempted from the Class 1, Division 2 hazardous location requirements of NFPA 70.		
CHAPTER 12 - HYDRONIC PIPING				
1208		Testing is not viable for certain hydronic piping systems. Add: “or as directed by the manufacturer and their installation instructions.” Permit appropriate pressure testing of piping as identified by manufacturer without overpressurizing the piping.		6
CHAPTER 13 - FUEL OIL PIPING AND STORAGE				

IMC Code Sections	SPS 364	2012 IMC Changes	2015 IMC Changes	Comments
	Topic	DIS Recommendations		
CHAPTER 14 - SOLAR SYSTEMS				
CHAPTER 15 - REFERENCED STANDARDS				
	SPS 364.1500	<p>“SPS 364 currently adopts: FGI Guidelines for Design and Construction of Health Care Facilities, 2010 The code should reference: FGI Guidelines for Design and Construction of Hospitals and Outpatient Facilities, 2014 and FGI Guidelines for Design and Construction of Residential Health, Care, and Support Facilities, 2014” - David Soens at DHS/DQA</p>		
APPENDICES				
Appendix A				
Appendix B				

a. Published sources:

2009 *International Mechanical Code*® – International Code Council® (ICC)

2012 *International Mechanical Code* – International Code Council

2015 *International Mechanical Code* – International Code Council

Significant Changes to the International Plumbing Code, International Mechanical Code and International Fuel Gas Code, 2012 Edition – International Code Council

Significant Changes to the International Plumbing Code, International Mechanical Code and International Fuel Gas Code, 2015 Edition – International Code Council

b. Various IMC code section number references in SPS 364 will be updated where code section numbering in the IMC has changed, but these modifications are not referenced here.

c. Changes that are not addressed because they do not apply in Wisconsin include the changes for all of chapter 1 Administration.

d. Chapter SPS 361 & 364 of the *Wisconsin Administrative Code* (Register, December 2011)

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File Reference: *SPS 364/Summary 2012 & 2015 IMC changes*