

Legend:

- **Blue Text = Recommended action with little impact to the current 2012 IRC. Code.**
- **Red Text = Greater impact to the 2012 IRC as adopted by Idaho. Action item for further discussion and coordination with IDAPA Rules and/or other codes.**
- **Recommend as amendments to the current Idaho Residential Code.**

Chapters 1 and 2:

IRC Section R101.2. Scope:

2018 IRC Modifications: Clarified scope of code application, clarified the exceptions, added 3 exceptions for a total of 5 exceptions. –

2015 IRC Modifications: Increased maximum structure height from 2 to 3 stories, removed area and height restrictions on accessory structures.

Comments:

- **Recommended, a positive change for accessory structures.**
- **This will need to go through the amendment process if we want to change it to be consistent with 2012 IDAPA.**
- **Do we want to exempt from sprinklers?**
- **Recommend as amendment to the current Idaho Residential Code.**

IRC Section R104.11 Alternative Materials and Methods of Construction:

2018 IRC Modification: Clarified alternative methods section and criteria for approval by Building Official.

2015 IRC Modifications: Added text “Where the alternative material, design or method of construction is not approved, the building official shall respond in writing, stating the reasons why the alternative was not approved.” – Recommended

Comments:

- **Recommended: Positive in that it requires a formal request and action of approval if equivalent.**
- **Requires an application and criteria for equivalency by requestor. Building Official must approve if equivalent.**

IRC Section R105.1, R110.1, R202 Change of occupancy:

2018 IRC Modifications: Section R105.1 Change of wording for issuance of certificate of occupancy, Section R110.1 changes to wording for use and occupancy; and R202 Modification of Definition of Occupancy. No Modifications in 2015.

Comments:

- **Recommended: Positive clarifies change of use.**

Section R105.3.1.1 Determination of Substantially Improved or Substantially Damaged Existing Buildings in Flood Hazard Areas:

2015 IRC Modification: Revised text to better define determination of Substantially Improved or Substantially Damaged Existing Buildings in Flood Hazard Areas.

Comments:

- **Recommended: Positive clarifies definitions and code section.**

Section R106.1.4 Information for Construction in Flood Hazard Areas:

2015 IRC Modification: Clarification of requirements for elevation requirements for Coastal A Zones.

Comments:

- **Recommended: Positive clarifies code section.**

Section R202: Definitions:

2018 IRC Modifications: Definitions changed from Accessible to Access (To), from Accessible, Readily to Ready Access (To), and revision to Clean out to match the above term changes.

- Changes made to definitions of Carbon Monoxide Alarm and Carbon Monoxide Detector clarifying the differences to the two.
- Changes made to definition of Fenestration.
- New definitions were added to related solar energy systems.

Comments:

- **Recommended: Clarifies definitions for all items above.**

Chapter 3

IRC Table R301.2 (1) Climatic and Geographic Design Criteria:

2018 IRC Table R301.2 (1) Climatic and Geographic Design Criteria. Modification added Manual J design criteria to include variables for Manual J assessments with other climatic and geographic design criteria.

2015 IRC Modification: Ultimate design wind speed values replace basic wind speed values for 3-sec gust wind speeds in Section R301.2.1. A wind speed conversion table has been added for conversion from ultimate design to nominal design wind speeds.

Comments:

- **Recommended: Clarifies all items above.**

Section R301.2.2.1 Seismic Design Category:

2018 IRC Section R301.2.2.1 Seismic Design Category. Modification of a new alternative seismic map allows potentially a lower seismic design category based on determination of soil type. No code Modifications in 2015.

Comments:

- **Recommended: Very Positive. Many jurisdictions are in a D - category that this could benefit from lower design standards for this category.**

Section R301.2.1.2 Protection of Openings:

2015 Modification: This change replaces 2-story limit on use of wood structural panels for wind-borne debris protection with limit based on 33-foot mean roof height. (RB41) –

Comments:

- **Not Applicable to our geographical area.**

Section R301.2.1.4 Wind Exposure Category:

2015 Modifications: Wind Exposure Category A is deleted. In the 2012 IRC, Wind Exposure Category D applied to regions adjacent to open water in non-hurricane prone regions. Wind Exposure Category D now applies to open water, mud and salt flats, and unbroken ice fields. Exposure Category D also applies in hurricane-prone regions to residences on or near the ocean shore.

Comments:

- **Positive change in our geographical area.**

Section R301.2.2.6 Irregular Buildings:

2018 IRC Section R301.2.2.6 Irregular Buildings. Modification. Has been rearranged to avoid confusing language in 2015 IRC. No code modification between 2012 – 2015.

Comments:

- **Recommended: Positive change clarifies confusing language.**

Section R301.3 Story Height:

2015 Modifications: Story height of wood and steel wall framing, insulated concrete, and SIP walls may not exceed 11 feet, 7 inches. Masonry wall height is limited to 13 feet, 7 inches.

Comments:

- **Recommended: Positive Change.**

Section R302.1 Exterior Walls:

2018 IRC Section R302.1 Exterior Walls. Modification. References to the IBC offer additional options and provide flexibility in determining the fire-resistance rating of exterior wall assemblies.

2015 Modification: Unprotected eave ≥ 2 ft. FSD with fire-blocking β Unprotected penetrations ≥ 3 ft. FSD .

Comments:

- **Recommended: Positive change adds more clarification and options for fire resistive rating.**
- **Requires coordination with current IDAPA building separation table.**

IRC Section R302.2 Townhouse Separation:

2018 IRC Section R302.2 Townhouse Separation. Modification. Two pathways for achieving the fire-resistance separation between Townhouse dwelling units.

Code Modification 2012 – 2015: Removes reference to R302.1. Mandates a common wall for separating townhouses. Allows 2-hour rated common wall without sprinklers and 1-hour rated wall with sprinklers. Structural independence does not apply

Comments:

- **Recommended: Positive change but requires coordination with current IDAPA building separation table.**

IRC Section R302.3 Modification to Two-Family Dwelling Separation:

2018 IRC Section R302.3 Modification to Two-Family Dwelling Separation. New reference to section 703.3 of the IBC provides alternatives for determining the fire-resistance rating of wall and floor/ceiling assemblies for separation of dwelling units. No code Modification between 2012 – 2015.

Comments:

- **Recommended: Positive change with more options for rated wall assembly.**

IRC Section R302.4.2 Membrane Penetrations:

2018 IRC Section R302.4.2 Membrane Penetrations. Modification. Exception for UL listed luminaires that have been test for the application are specifically permitted for fire-resistant-rated ceiling membrane penetrations. No code modifications in 2015 IRC.

Comments:

- **Recommended: Positive change with more options for rated lighting fixtures.**

Section R302.5 Dwelling-Garage Opening Protection:

2018 Modification. An automatic-closing device is now permitted as an alternate to a self-closing device for the door between the garage and dwelling. No code modifications in 2015 IRC.

Comments:

- **Recommended: Positive change with additional option for door closer.**

Section R302.10 Insulation Flame Spread:

- 2018 Code Modification: The testing of insulating materials for flame spread and smoke-developed ratings applies to facings including vapor retarders and other coverings. This clarifies the old language. No code modification in 2015 IRC.

Comments:

- **Recommended: Positive change gives clarification on placement of the vapor retarder and allows it to be intact with insulation and still meet ratings.**

Section R302.13 Fire Protection of Floors above Crawl Spaces:

2018 Modification: Fire resistant membrane protection is now required for the applicable floor framing materials above crawl spaces containing fuel-fired or electric-powered heating appliances. Includes use of 5/8" Gyp Bd. or structural panel.

2015 Clarification: Relocated section from Chapter 5. Clarifies that penetrations or openings that are not regulated.

Comments:

- **Amend out of 2018 Code Adoption.**

Sections R303.7, R303.8 Stairway Illumination Clarification:

2015 Clarification: Interior and exterior in separate sections. Interior to illuminate treads and landings. Exterior light source at top landing. Bottom landing accessing basement.

Comments:

- **Recommended: Positive change.**

R304.1 Minimum Habitable Room Area:

2015 Deletion: Deletes 120 square feet minimum room area.

Comments:

- **Recommended: Positive change by removing minimum standard.**
- **Recommend as amendment to the current Idaho Residential Code.**

R305 Ceiling Height:

2015 Modifications: 6 feet 8 inches minimum ceiling height for Bathrooms, Toilet rooms, and Laundry rooms. 6 feet 4 inch minimum ceiling height in all basements at Beams, Girders, Ducts, and Other obstructions.

Comments:

- **Recommended: Positive change by reducing required ceiling height.**
- **Recommend as amendment to the current Idaho Residential Code.**

Section R308.4.2 Glazing Adjacent to Doors:

2018 Modifications: Glazing within 24 inches of the hinge side of an in-swinging door now requires safety glazing where the glazing is at an angle less than 180 degrees from the plane of the door.

2015 Modifications: Glazing installed perpendicular to a door, < 24 inches from door, safety glazing if on hinge side of an in-swinging door.

Comments:

- **Recommended: Positive change adds clarification.**

IRC Section R308.4.4 Glazing in Guards and Railings:

2018 IRC Modification: Glazing in Guards and Railings. Unless laminated glass is used, structural glass baluster panels in guards now require an attached top rail or handrail. No code Modification between 2012 – 2015.

Comments:

- **Recommended: Positive change adds factor of safety for use on non-laminated glass.**

R308.4.5 Glazing and Wet Surfaces:

2015 modification: No safety glazing required when located \geq 60 in. from edge of Shower, Sauna, Steam room, Bathtub, Hot tub, Spa, Whirlpool, Swimming pool.

Comments:

- **Recommended: Positive change.**

IRC Section R308.4.7 Glazing Adjacent to the Bottom Stair Landing:

2018 Landing Clarification: Figure R308.4.7 has been replaced with a new figure and modified caption to more accurately reflect the related code provisions.

2015 IRC Clarification: This change limits the requirement for glazing at the bottom of a landing by excluding windows greater than 180 degrees from the bottom face of the landing. (RB115)

Comments:

- **Recommended: Positive change.**

IRC Section R310.1 Emergency Escape and Rescue Openings:

2018 IRC Modification: Emergency escape and rescue openings are no longer required for bedrooms in basement when the dwelling unit is protected with an automatic fire sprinkler system and other conditions are met.

2015 Section R310 Clarification. Reorganization and separate section for windows and doors.

Comments:

- **Recommended: Positive change, more flexibility if fire sprinklered.**

IRC Section R310.3 Area Wells for Emergency Escape and Rescue Doors:

2018 IRC Modification: A change in terminology. No code change between in 2015 IRC.

Comments:

- **Recommended: Positive change, clarifies terminology.**

Sections R310.5, R310.6 Emergency Escape and Rescue Openings for Additions, Alterations and Repairs:

2015 IRC Modifications: No additional emergency escape and rescue openings required in a Basement addition with access to an emergency escape and rescue opening or remodeling of an existing basement unless new bedroom.

Comments:

- **Recommended: Positive change, clarifies requirements during remodel.**

IRC Section R311.7.1, R311.7.8 Handrail Projection:

2018 IRC Modification: A new exception to the handrail projection limitation provides for adequate clearance behind the handrail when it passes a projection of a floor, landing or tread return. 2015 No code modifications in 2015 IRC.

Comments:

- **Recommended: Positive change, clarifies handrail requirements.**

IRC Section R311.7.3 Maximum Stair Rise between Landings:

2018 IRC Modification: The maximum rise of a flight of stairs has increased by 4 inches, from 147 to 151 inches. 2015 Code Modification: Increase from 144 inches to 147 inches.

Comments:

- **Recommended: Positive change.**

IRC Section R311.7.5.3 Stair Nosing:

2018 IRC Modification: The revised text clarifies that stair nosings must be consistent throughout the stairway. No code modifications in 2015 IRC.

Comments:

- **Recommended: Positive change adds clarification.**

IRC Section R311.7.11, R311.7.12 Alternating Tread Devices and Ships Ladders:

2018 Code Modification: Alternating tread devices and ships ladders are now permitted as a means of egress for serving lofts and mezzanines that do not exceed 200 square feet in area.

2015 Code Modifications: Alternating tread devices and ship ladders have been added to the stair provisions. Neither device is approved for use as a means of egress.

Comments:

- **Recommended: Positive change for tiny houses and bonus rooms.**
- **Recommend as amendment to the current Idaho Residential Code.**

IRC Section R311.7.8.2

2018 IRC: Handrail Projection Change. Clarifies the projection of handrails into stairway to 4.5 inches, with a 6.5 inch projection width at landings, floors, and passing flights of stairs.

Comments:

- **Recommended**

IRC Section R311.7.8.3

2018 IRC change: Handrail clearance between handrail and wall set at 1.5 inches.

Comments:

- **Recommended**

IRC Section R311.7.8.4

2018 IRC change: Handrail continuity wording change to clarify the requirement.

Comments:

- **Recommended**

R311.8 Ramps:

2015 IRC Modification: Max. 1:8 slope for ramps that do not serve required egress door. Max. 1:12 for ramps serving required egress door.

Comments:

- **Recommended**

Section R312.1 Guards:

2018 Code Clarification. The guard requirements only apply to the specific portion of a walking surface that exceeds 30 inches above grade. No Code Modifications in 2015 IRC.

Comments:

- **Recommended, clarification, no change of standard.**

Section R314 Smoke Alarms:

2018 Code Modification: The exemptions for hard wired interconnection of alarms during alterations based on feasibility has been removed from the code and replaced with wireless option for interconnection.

2015 Code Modification: Battery-operated permitted for alterations, repairs, and additions. Addresses alarms installed near bathrooms and cooking appliances. Household fire alarm systems no longer require monitoring by an approved supervising station.

Comments:

- **Recommended.**
- **Coordinate 2015 and 2018 revisions with earlier IDAPA amendments and with Fire and Electrical Codes.**
- **Recommend as amendment to the current Idaho Residential Code.**

IRC Section R315 Carbon Monoxide Alarms:

2018 Code Modification: Interconnection is now required where multiple carbon monoxide alarms are required in a dwelling unit

2015 Code Modification: Connection to house wiring with battery backup. Exterior work no longer triggers CO alarm provisions for existing buildings. Attached garage only considered if communicating with dwelling. CO alarm in bedroom with fuel-fired appliance in the bedroom or adjoining bathroom. CO detection systems only require detectors in locations prescribed by the code (not NFPA 720). Carbon Monoxide alarms now required connection to the house wiring system with battery backup.

Comments:

- **Recommended.**
- **There is an exemption in section 315.2.2 for wireless devices that sound all alarms.**
- **Coordinate section 315.3 to add IDAPA exemptions with Electrical Permit.**
- **Recommend as amendment to the current Idaho Residential Code.**

IRC Section R316.4 Thermal Barrier:

2015 IRC Modification: This change adds 23/32 wood structural panels as an acceptable alternative for thermal barrier protection. (RB172)

Comments:

- **Recommended.**

Section R317.3 Fasteners in Treated Wood:

2018 Code Modification: Staples in preservative-treated wood and fire retardant-treated wood are now required to be made of stainless steel. **OK, a good requirement. May increase costs however.**

2015 No Code Modifications.

Comments:

- **Recommended.**
- **Now that staples are allowed the stainless finish type of staple will be more costly.**

Section R322.3 Coastal High-Hazard Flood Zones:

2018 Code Modification: In high-hazard areas the IRC now provides specific guidance for the design and construction of concrete slabs, stairs, guards, decks and porches to reduce damage to the dwelling in a flood event.

2015 Code Modification: Coastal A Zones are defined and an exception for foundation types in Coastal A Zones is added.

Comments:

- **Not Applicable.**

Section R324.4 Rooftop-Mounted Photovoltaic Systems:

2018 Code Modification. Structural requirements for rooftop-mounted Photovoltaic panel systems have been revised and consolidated in Section R324.4. No code modifications in 2015 IRC.

Comments:

- **Recommended to ensure that the dead load of the panels will not reduce the safety factor of an existing or new truss system.**
- **Amend to require structural calculations for existing hand stacked rafters that do not meet current rafter span tables.**

Section R324.6 Roof Access for Photovoltaic Solar Energy Systems:

- 2018 Code Addition: Requirements for roof access and pathways for firefighters have been introduced into the IRC provisions for rooftop-mounted photovoltaic solar energy systems. 2015 No Code Modifications.

Comments:

- **Recommended. This brings in the requirement from the International Fire Code which already applied to residential construction.**
- **Recommend as amendment to the current Idaho Residential Code.**

Section R324.6.2.2 Solar Panels near Emergency Escape and Rescue Openings:

2018 Code Modification: Panels are not permitted to be installed directly below emergency escape and rescue openings. 2015 No Code Modifications.

Comments:

- **Recommended. This brings in the requirement from the International Fire Code which already applied to residential construction.**

Section R325.3 Mezzanine Area Limitation:

2018 Code Modification: Increase from one-third to one-half of the area of the room containing the mezzanine under certain conditions. 2015 No Code Modifications.

Comments:

- **Recommended. More flexibility, allows larger mezzanine areas.**

Sections R325.6, R202 Habitable Attics:

2018 Code Addition: The definition of habitable attic has been revised and the technical requirements have been placed in a new section R325.6. 2015 No Code Modifications.

Comments:

- **Recommended. Clarifies the requirements of a habitable attic.**

Chapter 4 and 5:

R403.1.1 Minimum Footing Size:

2015 Code Modifications: Expanded tables. Includes Type of structure, Light frame, Veneer, Concrete, Slab on grade, Crawl space, and Basement.

Comments:

- **The table adds more choices for building situations.**
- **Could result in larger footing sizes; however this may be ok if larger footings are necessary on larger buildings.**
- **Do we need to keep the 2012 IRC Table?**
- **Need vetting with structural engineer.**

R403.1.6 Foundation Anchorage

2015 Code Modification: Anchor bolts are now required to be placed in the middle third of the sill plate.

Comments:

- **Recommended. Clarifies the requirements, a good change.**

Table 403.3 (1) Frost Protected Footings:

2018 IRC Modification. Clarified the insulation requirements for shallow foundations. 2015 No Code Modifications.

Comments:

- **Rarely used in Idaho.**
- **Recommended.**

Table 403.4. Crushed Stone footings:

2018 Code Modification: Added Note b and c and Clarified the requirements to compact crushed stone footings, and defined soil classification per Table 404.5.1.

2015 Code Modification: Note added allowing linear interpolation of stone depth for calculating stone footing depth.

Comments:

- **Rarely used.**
- **Recommended.**

Section 408.3. Unvented Crawl Spaces:

2018 Code Modification: Ventilation of the under-floorspace is not required when and adequately sized dehumidifier is provided. 2015, No Code Modifications.

Comments:

- **Recommended. Gives an alternate means of removing humidity and moisture from unvented crawl space.**

Tables R502.3.1(1), R502.3.1(2) Floor Joist Spans for Common Lumber Species:

2015 Code Modifications: Span lengths decreased for Southern Pine and Increased for DFL and HF.

Comments:

- **Recommended.**

Table 505.3.2. Steel Joist Spans:

2018 Code Modification: Steel stud joist span length modifications.

2015 Code Modification: Note “e” added, title changed, and table simplified.

Comments:

- **Recommended. Rarely used.**

Section 507 Decks:

2018 Code Modification: Reorganization of this section and additional provisions for prescriptive construction of decks is provided.

2015 Code Modification: New Section in 2012, renamed to Exterior Decks in 2015.

Comments:

- **Recommended. Positive change with more clarification.**

Section 507.2 Deck Material:

2018 Code Modification: Section 507.2 and sub sections reorganized. Added the following sections: 507.2.1. Wood materials; 507.2.1.1 Engineered wood products; 507.2.3 Fasteners and connectors; 507.2.4 Flashing; 507.2.5 Alternated Materials; and Table 507.2.3. The following sections have been designated with new section numbers: 507.2.2 Plastic Composite Deck Stairs Guards Handrails, 507.2.2.1 Labeling, 507.2.2.2 Flame Spread Index, 507.2.2.3 Decay resistant, 507.2.2.4 Termite Resistant, 507.2.2.5 Installation of Plastic Composites.

2015 Code Modification: Section 507.2 Deck Ledger Connection to Band Joist modified. 507.2.1 Placement of Lad screws deleted. 507.2.1 Ledger Details added. 507.2.2 Alternate Deck Ledger Connections deleted. 507.2.2 Band Joist Details Added. 507.2.3 Ledger to Band Joist Fastener Detail added. Table 5-7.2 Modified.

Comments:

- **Recommended. Positive change with more clarification.**
- **Are 3x epoxy coated fasteners for plastic wood products compatible for treated lumber.**

R507.2.4 Alternative Deck Lateral Load Connection:

2015 Code Modification: Optional Connections 1) shown in Figure 507.2.3(1): Include two hold-down devices ≤ 2 ft. of the ends of the deck. 2) Shown in Figure 507.2.3(1): Includes four hold-downs installed below the deck structure.

Comments:

- **Recommended. Positive change with more options.**

Section 507.3 Deck Footings:

2018 Code Addition. This section defines the size and depth of deck footings, with exceptions. This new section also references new Table 507.3.1, Minimum Footing Size for Decks.

2015 Code Modification: New section 507.3 Wood/Plastic Composites found in a new section in 2015.

Comments:

- **Recommended. Positive change with more clarification and information.**

Section 507.4 Deck Posts:

2018 IRC Modification: Section re-designed to add non-engineered prescriptive method. 507.4 Deck Posts.

Comments:

- **Recommended. Positive with more flexibility.**

Section 507.5 Deck Beams:

2018 Code Modification: Section 507.5 Deck Beams has been modified. Section 507.7 was renumbered 507.5.1, modified, and renamed Deck Beam Bearing. Section 507.7.1 re designated 507.5.2, modified and renamed Deck Beam Connection to Supports. Table 507.6 re-designated 507.5 Deck Beam Span Lengths, and modified.

2015 Code Addition: The following are New Sections in the 2015 IRC: 507.5 Deck Joists; 507.1 Lateral Restraints at Supports; 507.6 Deck Beams; 507.7 Deck Joist and Deck Beam Bearing; 507.7.7.1 Deck Post to Deck Beam. The following are New Tables in the 2015 IRC: T507.5 Deck Joist Spans; T507.6 Deck Beam Span Lengths.

Comments:

- **Recommended. Positive change with more clarification and information.**

Section 507.6 Deck Joists:

2018 IRC Modification: 507.5 re-designated 507.6 Deck Joists, and modified. 507.7 re-designated 507.6.1, renamed Deck Joist and modified. Table 507.5 re-designated 507.6 Deck Joist Spans, and reorganized.

Comments:

- **Recommended. Positive change with more clarification and information. Easier to read.**

Section 507.7 Decking:

2018 Modification: Section 507.7 Decking was modified.

2015 IRC Modification: Deck Joist and Deck Beam Bearing new section in the 2015.

Comments:

- **Recommended. Positive change with more clarification and information. Easier to read.**

Section 507.8 Vertical and lateral supports:

2018 IRC Modification. Section 507.1 Decks, renamed 507.8 Vertical and Lateral Supports.

2015 IRC Addition. This code section and its sub sections were new to the 2015 code. Table 507.8 Deck Posts prescribes minimum sizes of wood posts supporting wood decks.

Comments:

- **Recommended. Positive change with more clarification and information. Easier to read.**

Section 507.9 Vertical and Lateral Supports at Band Joist:

2018 IRC New Sections. The following subsections of this section are new: 507.9.1 Vertical Supports; 507.9.1.4 Alternate Ledger Details. The following Sections have been re-designated: 507.2.1 has been re-designated to 507.9.1.1 Ledger Details; 507.2.2 has been re-designated 507.9.1.2 Band Joist Details; 507.2.3 has been re-designated 507.9.1.3 Ledger to Band Joist Details; 507.2.4 has been re-designated 507.9.2 and has been modified and renamed Lateral Connection. 2015 No Code Modifications.

Comments:

- **Recommended. Positive change with more clarification and information.**

IRC Table 507.9.1.3.1:

2018 Table 507.9.1.3.1. Table 507.2 re-designated to this new Table. No change in values.

2015 IRC: Added Table 507.2.; this is a new table to the 2015 Code.

Comments:

- **Recommended. Positive change with more clarification and information.**

IRC Table 507.9.1.3.2:

2018 IRC Table re-designated and Table 507.2.1 incorporated to this new Table.

2015 IRC Code Modification: No Change.

Comments:

- **Recommended. Positive change with more clarification and information.**

Table R602.3(1) Fastening Schedule:

2015 Code Revision: Table R602.3 revised to give nail size options.

Comments:

- **Recommended. Positive change with more options.**

Table R602.3(6) Alternate Stud Height:

2015 Code Modification: Table R602.3 (6) added to provide data for stud heights above 10'. revised to give nail size options.

Comments:

- **Recommended. Positive change with clarification.**

Tables R602.7 (1) and R602.7 (2) Girder and Header Spans:

2018 IRC Modification: Header table has been redesigned to update from No. 1 Southern pine to No. 2 southern Pine; keynotes added; and further reduction in span is taken for 2 x 8 and larger headers. OK, Southern Pine isn't used here.

2015 IRC Modification: Combined tables in Ch. 6 to include Multi-ply and single headers and Rim board headers. New open porch header table. New table for full-height studs at each end of header.

Comments: Recommended. Positive change with clarification.

Table R602.7 (5) Lateral Support for Headers:

2018 IRC Modification: Revised table to increase king studs in high wind areas and decrease number of king studs in wind areas below 115 mph.

Comments:

- **Recommended. Positive change with clarification.**
- **Positive, this is a major reduction in king studs from 2012 and 2015 IRC.**

Table R602.10.3(4) Seismic Adjustment Factors:

2018 IRC Modification: Revised table to clarify loads and revision of bracing methods.

Comments:

- **Recommended. Positive change with clarification.**
- **Positive change, allows brick veneer in second story with WSP or CS-WSP methods**

R602.10.4.1 Mixed Bracing Methods:

2018 IRC Modification: Allows mixing of bracing methods.

Comments:

- **Recommended. Positive change with more options.**

Table R602.10.5 Contributing Length of Method CS-PF Braced Wall Panels:

2015 Added Table: R602.10.5 Contributing Length of Method CS-PF Braced Wall Panels.

Comments:

- **Recommended. Positive change with more clarification.**

R602.10.6.2 Method PFH Portal Frame with Hold-Downs:

2015 Portal Frame with Hold-Downs added: Per recent testing: Minimum hold-down capacity lowered to 3500 lbs and two sill plates are sufficient (3 were required in 2012 IRC).

Comments:

- **Recommended. Positive change.**

R602.10.6.4 Method CS-PF – Continuously Sheathed Portal Frame:

2018 IRC Modification: Modified sheathing requirements of continuously sheathed portal frame.

Comments:

- **Recommended. Clarifies that you must have additional sheathing beyond post at portal frame.**

R602.10.6.5 Method BV-WSP:

2018 Modification: Clarification of Method BV-WSP bracing method.

Comments:

- **Recommended. Clarifies bracing method.**

R602.12 Simplified Wall Bracing:

2015 Modification: 3-story buildings (previously 2); Wind Exposure B and C. Wind speed (Vult) 130 mph.

Comments:

- **Recommended. Adds design flexibility.**

Tables R603.3.1 and R603.1.1(2) Cold Formed Steel Wall Construction:

2018 IRC Modification: Connections tables are modified for wind speeds less than 140 mph. matching AISI S230.

Comments:

- **Recommended. Adds clarification.**

Section R610 Structural Insulated Panels:

2018 Modification: Section on Structural Insulated Panels has been reorganized.

Comments:

- **Recommended. Adds clarification.**

Section R703.2 Water Resistive Barrier:

2018 IRC Modification: Water resistive barriers other than #15 felt must be installed per manufacturer's installation instructions.

Comments:

- **Recommended. Adds clarification.**

Section R703.3.1 Soffit Installation:

2018 IRC Modification: Requirements for wood structural panel soffits are added and vinyl soffit requirements clarified.

Comments:

- **Recommended. Adds clarification and flexibility.**

Section R703.8.4 Veneer Anchorage Through Insulation:

2018 IRC Modification: Masonry veneer is explicitly allowed to attach through insulation into underlying structural panel. Attachment must follow Table 703.8.4(2)

Comments:

- **Recommended. Adds clarification and flexibility.**

Table R703.8.4 (1) Airspace Requirements:

2018 IRC Modification: New keynote c allows drainage air space to contain some mortar spills.

Comments:

- **Recommended. Adds clarification and flexibility.**

Section R802 Roof Framing:

2018 IRC Modification: Design and construction of roof framing has been clarified and re organized.

Comments:

- **Recommended. Adds clarification.**

Section R802.1.5.4 Labeling:

2018 IRC Modification: Label requirements added for fire retardant treated (FRT) lumber.

Comments:

- **Recommended. Adds clarification.**

Section R806.2 Minimum Vent Area:

2018 IRC Modification: Minimum Vent Area exception is clarified.

Comments:

- **Recommended. Adds clarification.**

Section R806.5 Unvented Attics:

2018 IRC Modification: Minimum Vent Area exception is clarified.

Comments:

- **Recommended. Adds clarification.**

Tables R905.1.1(1) and R905.1.1(2) Underlayment Requirements for Photovoltaic Shingles:

2018 IRC Modification: Underlayment requirements for Photovoltaic Shingles are revised and moved to tables R905.1.1(1) and R905.1.1(2).

Comments:

- **Recommended. Adds clarification.**

Section R905.17 Building Integrated Photovoltaic Panels:

2018 IRC Addition: New section added to address installation and attachment for Building Integrated Photovoltaic Panels.

Comments:

- **Recommended. Adds clarification.**

Section R1005.8 Chimney Insulation Shield:

2018 IRC Addition: Added insulation shield for factory built chimneys.

Comments:

- **Recommended. Added fire protection.**
- **Added cost.**

Remove Chapter 11 from discussion:

N1101.14 Permanent Energy Certificate:

- 2015 Code Modification: The code now requires the permanent energy certificate to be placed on a wall in proximity to the furnace, in a utility room, or in another approved location inside the building. **Positive**

N1102.1.3 R- Value Computation:

- Insulated Siding N1102.1.3 R-Value Computation—Insulated Siding Change Type: Modification: The code now allows insulated siding to be used in the calculation for satisfying the wall insulation R-value. The labeled R-value for the siding must be reduced by R-0.6 for calculation purposes.

N1102.2.4 Access Hatches and Doors:

- Vertical doors that access unconditioned attics and crawl spaces do not require an R-value to match the required wall insulation. Such doors must comply with the fenestration U-factor requirements of Table N1102.1.2. **OK**

Refer Chapters 12-24 to Mech Board:

M1502.4.4, M1502.4.5 Dryer Exhaust Duct Power Ventilators:

- Code Addition: The code now recognizes the use of dryer exhaust duct power ventilators (DEDPVs) to increase the allowable exhaust duct length for clothes dryers. **Positive addition**

M2301 Solar Thermal Energy System.

- Recommend adoption by mechanical board.

G2404.11 Condensate Pumps Change Type:

- Code Addition: Condensate pumps located in uninhabitable spaces must be connected to the appliance to shut down the equipment in the event of pump failure. **A good change**
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G2426.7.1 Door Clearance to Vent Terminals:

- An appliance vent terminal is not permitted in a location within 12 inches of the arc of a swinging door. **A good change**