

MINUTES



The meeting convened at the MBA Office called to order by Michael Coello, of Coello & Associates, at 9:32 a.m.

TASK FORCE MEMBERS PRESENT: Michael Coello, Pattie Stone, Mary Schroeder, Jim Wozniak, Neal Solheim, Mark Benkowski, Robert Franklin, Ron Klassen, Brett Wittig, Scott Satula, Tom Johnson, and Richard Paur.

GUESTS PRESENT: Larry Swaziek, Department of Commerce

After introductions, a motion was made, seconded, and approved to accept the minute from the October 27th, 2009 meeting.

Next, under Old Business, Mr. Satula addressed several of the ongoing questions that the Task Force members had on the requirements of various IRC provisions, including a lengthy discussion on R-value and mass walls.

Next, the Task Force reviewed the Energy Efficiency, Mechanical Administration, General Mechanical System Requirements, and Heating & Cooling Equipment chapters, and flagged the following issues:

CHAPTER-11 ENERGY EFFICIENCY

N1102.1	22.31(1)(b)	IRC climate zone boundaries positioned similarly as UDC	UDC Zone-1 is equivalent to IRC Zone 6 , UDC Zone-2 is equivalent to IRC zone 7
IRC Table N1102.1	UDC Table 22.31-1	Fenestration, skylight, ceiling R & U factors same in both codes, wall R-value increased to R-20 in 2009 in IRC for cavity only insulation versus R-19 in UDC	
IRC Table N1102.1	Table 22.31-1, Note f	footnote f. in UDC table permits compression in wall cavity, IRC has R-20 for wood frame VS UDC of R-19	
IRC Table N1102.2	Table 22.31-1	Footnote k. is not in UDC, UDC matches 2006 IRC	
IRC Table N1102.3	Table 22.31-1	"Slab R value & depth" in table N1102.1 are different than UDC	
	Table 22.31-3	As part of the U-factor tables, UDC has a lower equipment efficiency table (where you must install a higher level of insulation) which is not in IRC	
	Table 22.31-2	UDC has an error, basement wall U value should be 0.059 not 0.065	INFORMATIONAL ONLY
N1102.2.3	22.37(3)(a)	<u>Both</u> UDC & IRC require weatherstripping of access hatches and doors between conditioned and unconditioned spaces	
N1102.2.4	22.32	Scuttle panel insulation shall be the same R-value as the attic insulation	Not specifically mentioned in UDC
N1102.2.10	22.32	IRC spells out that insulation is not required on the horizontal portion of the foundation that supports the masonry veneer.	Not specifically mentioned in UDC
N1102.4 #9		Air sealing between dwelling units required in IRC	Not in UDC

N1102.4.2.1	22.37	IRC specifies testing options for air leakage	Not in UDC
	Table 22.36-2	There are default values in the UDC for exterior doors with or without storm doors	Not in IRC
Table 601.3.1	22.38	In Zones 6 & 7, the IRC would not allow a class 3 Vapor barrier when the house is sheathed with OSB or plywood	Permitted in UDC
N1102.4.3	21.32(1)(b)	IRC requires all wood burning fireplaces to have a gasketed door	Not specifically mentioned in UDC
N1103.2.1	22.42	Duct insulation requirements in IRC are less restrictive than UDC, IRC requires R-6 in areas other than the attic which are outside of the thermal envelope.	
1103.2.2	22.43	IRC requires a system tightness testing for ducts located outside the conditioned space	Committee recommends removal of this requirement
N1103.3 & .4	22.44	Pipe insulation requirements less restrictive in the UDC for boilers	The UDC only addresses insulating of piping outside the thermal envelope
N1103.3 & .4	22.44	Pipe insulation requirements less restrictive in the UDC for re-circulating hot water pipes	The UDC only addresses insulating of piping outside the thermal envelope
N1103.8		IRC addresses pool heater efficiencies	Not in UDC
N1103.7		IRC addresses snow and ice-melting systems, including sidewalks	Not in UDC
N1104		IRC designates certain lighting efficiencies for at least 50% of the lamps in the home	Not in UDC

CHAPTER-12 MECHANICAL ADMINISTRATION

Chapter 12		Mechanical Administration. This is an administrative chapter that would be amended by Dcomm	
	22.50 - 22.53	UDC has simulated performance alternatives for energy trade-offs	Not in IRC

CHAPTER-13 GENERAL MECHANICAL SYSTEM REQUIREMENTS

M1305.1.2		Appliance access in IRC conflicts with State Electrical Code	
M1307.4		IRC addresses hydrogen generating systems	Not in UDC
M1305.1.3 & .4	21.07	The IRC requires the attic and under-floor space openings to be large enough to remove the appliance	Not in UDC

**CHAPTER-14 HEATING AND COOLING
EQUIPMENT**

M1401.3	23.02(1)	A more thorough review is needed to compare the air temperature design criteria between the two codes	
M1410	23.04(2)(b)	UDC prohibits the use of unvented space heaters, IRC allows them	
P2802	23.04(5)	<i>UDC allows water heaters for space heating, this item would be more appropriately placed in IRC Ch. 14 Mechanical section</i>	
M1407	23.04(3)	IRC addresses duct heaters specifically	Generally addressed by listing in UDC
M1408	23.04(3)	IRC addresses vented floor furnaces specifically	Generally addressed by listing in UDC
M1410	23.04(3)	IRC addresses vented room heaters specifically	Generally addressed by listing in UDC
M1411.4		Auxiliary drain pan required for AC condensates in IRC	Not in UDC
1411.3.1	23.156	IRC specifies drain system requirements for AC condensates	Not in UDC
M1411.5		AC refrigerant lines require additional R-value in IRC	Not in UDC
M1412		IRC addresses absorption cooling equipment	Not in UDC
M1413		IRC addresses evaporative cooling equipment	Not in UDC

The next meeting time and date was then announced to be **January 26th, 2010, beginning at 9:30 a.m.** It was also determined that the chapters to tentatively be reviewed at that meeting will be those numbered 15-23.

Chairman Coello then adjourned the meeting at approximately 3:15 p.m.

TASK FORCE COMMITTEE

UDC/IRC COMPARISON

	A	B	C	D	E
1	Date	IRC	UDC	DIFFERENCES	DISCUSSION
2					
3				CHAPTER-2 DEFINITIONS	
4					
5				CHAPTER-3 PLANNING	
6	6/30/09			Which code would apply to UDC homes constructed pre-IRC?	Follow code home was originally built under
7	6/30/09	R301.5 (Table R301.5)	21.02	IRC requires bedroom Live Load of 30 PSF	Should be 40 PSF to accommodate future change of use
8	6/30/09	R301.5 (Table R301.5)	21.02	IRC requires live load of 10 PSF for attics without storage	Change to 5 PSF, same as UDC
9	6/30/09	R301.5 (Table R301.5)		IRC requires live load of 30 PSF for attics with fixed stairs	Change to 40 PSF to be consistent with hab. room floor loading
10	6/30/09			Major significance	Maintain current rules in UDC ch. 20 but insert IRC definitions
11	6/30/09			Dcomm to maintain control of UDC	Maintain current administrative rule making process
12	6/30/09			Eliminate confusion with amended code	Have ICC produce Wisconsin specific code based on IRC
13	6/30/09			Allow ample time to train on new versions of code	Adopt 2009 version of IRC in 2012 (lag one code cycle for UDC adoption)
14	6/30/09	Def. of "Habitable Space"	20.07(37)	IRC considers cooking portion of a kitchen as "habitable space". This results in a requirement to provide natural light & ventilation in the cooking portion of kitchen.	Delete the word "cooking" in IRC definition of "Habitable Space"
15	6/30/09	IRC Table 301.2(1)		Wisconsin has different zones for snow loads	Create separate tables for each zone
16	6/30/09	IRC Table 301.2(1)		General design criteria	Dcomm to fill in table
17	6/30/09	R301.4	21.02(1)(a)	IRC lacks specific "loading" language for earth-sheltered dwellings	Add language in UDC to this section
18	6/30/09	R301.7 (Table R301.7)	Not addressed	IRC regulates deflection/UDC does not	Considering eliminating this section
19	6/30/09	R302.2 to R302.2.4	Not addressed	Townhomes not currently addressed in UDC	Considering eliminating these sections

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UDC/IRC COMPARISON

	A	B	C	D	E
20	6/30/09	Table R302.1	Table 21.08	IRC more restrictive on fire separations	Insert UDC requirements into IRC table, include "zero lot line", committee still discussing 3/4 hour vs. 1 hour
21	6/30/09	R302.3	21.08(2)	IRC requires rated 1-hour sep. in 2-family dwellings, UDC is prescriptive	Need further clarification on how hourly ratings are achieved in IRC
22	6/30/09	R302.7	Not addressed	IRC requires enclosed rooms under stairs to be protected with 1/2" drywall, extra cost (\$30-\$400 based on type of stairway) to	Still discussing
23	6/30/09	R302.5.2	Not addressed	IRC prohibits (direct) opening from garage to bedroom	Still discussing
24	6/30/09	Table R302.1	N/A	(Fire separation) Penetrations to comply with R317.3. incorrect reference	Correct errata, should be R302.4.1
25	6/30/09	R302.9.1	N/A	<i>Is paint a regulated interior finish in the IRC?</i>	<i>Most paints applied to drywall achieve Class A flame spread rating</i>
26	6/30/09	R302.10.1 ex. 1	N/A	How does the IRC define a "concealed space". Would this include the vapor barrier under the insulation in the attic? Is a class "A" vapor barrier required?	A concealed space is similar to insulation in a wall cavity
27	6/30/09	R303.1	21.05	Wisconsin has different zones for snow loads	Add exception for habitable rooms in basements other than bedrooms similar to UDC
28	6/30/09	R303.2	21.05	IRC would require the adjoining room to have an open wall if borrowing for natural light & ventilation	Delete R303.2, add new exception 4. to R303.1 by inserting language from UDC 21.05(1)(b) which allows natural light to be borrowed through glazed openings and other approved methods.
29	6/30/09	R303.1	21.05(1) & (2)	IRC requires 4% ventilation vs. UDC's 3.5%	Still discussing
30	6/30/09	R303.4	23.02(3)	Outdoor opening locations more restrictive in IRC	Still discussing
31	7/28/09	R316.5.3	21.11	Foam plastic exposed to attic must be covered with ignition barrier	R316.4 requirements will apply unless the criteria in R316.5.3 is met.
32	7/28/09	R303.4.2		Exhaust openings not to be directed on walkways	More restrictive than UDC/Research this section
33	7/28/09	R303.6		Stairway illumination/different than UDC	Consider eliminating this section
34	7/28/09	R303.7.1	21.05	Cannot borrow nat. lt. from a windowed sunroom	Insert language to permit glazing on unheated sunrooms

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	A	B	C	D	E
35	7/28/09	R303.7	21.05	Natural light openings	Is it permissible for a 2nd floor window to open above adjacent 1-story portion of dwelling? <i>ANSWER: As long as the window opens to a yard that is contiguous and unobstructed to the right-of-way, it is permitted, 2nd floor windows that open onto a 1-story garage roof meeting the same criteria are permitted.</i>
36	7/28/09	R303.8	20.04(1)(c)1.	IRC would require Wisconsin dwellings to be heated	Insert UDC exception in 20.04(1)(c)1.
37	7/28/09	R304		Minimum room areas not in UDC	
38	7/28/09	R305.1.1	21.06	Ceiling heights less than 6'-8" treated as crawl space in IRC	Add language to recognize stepped ceiling heights less than 6'-8"
39	7/28/09	R306		Sanitation requirements/Not in UDC	Remove this section
40	7/28/09	R307	84.20(5)(o)4.	Plumbing fixture clearances	Amend language to be consistent with 84.20(5)(o)4.
41	7/28/09	R308	21.05(3)	Safety glazing requirements more comprehensive than UDC	IRC incorporates more federal standards of CPSC 16 CFR
42	7/28/09	R308.6		Carports not specifically addressed in UDC	
43	7/28/09	R310.1	21.03(6)	Egress window requirements more restrictive in IRC	Add language to allow step inside dwelling to reduce sill height same as UDC
44	7/28/09	R310.1		IRC requires egress window in basement regardless of bedroom	Eliminate this requirement
45	7/28/09	R310.1		Egress window must open to a yard or court that opens to a public way	<i>As long as the window opens to a yard that is contiguous and unobstructed to the right-of-way, it is permitted.</i>
46	7/28/09	R311.3.1 & .2		IRC measures step height at exterior door from top of threshold	Amend to permit measurement from floor to floor same as UDC and R311.7.4 (stairways)
47	7/28/09	R311.6	21.035(2) & (3)	Hallway width	Use more descriptive language in UDC
48	7/28/09	R311.7	21.04(4)	IRC does not recognize intermediate irregular landings	Amend to include UDC provisions for such landings but check to see if such a change would impact ISO ratings due to most accidents occurring on stairways in homes, <i>DCOMM Larry Swaziek indicates that ISO is more concerned with environmental issues being addressed in the code such as flood protection</i>
49	7/28/09	R311.7.4.3		Stairway nosing details	Add same requirements for concrete steps
50	7/28/09	R311.8	21.045	Ramp slope more restrictive in IRC (1/12 vs. 1/8)	

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UDC/IRC COMPARISON

	A	B	C	D	E
51	7/28/09	R311.7.7.1	21.04(3)	Handrail height difference	
52	7/28/09	R312.3	21.04(3)(c)	Guardrail height differences	
53	7/28/09	R315		Carbon Monoxide alarms required in IRC	
54	7/28/09	R316.5.3		Foam plastic exposed to attic must be covered with ignition barrier	<i>R316.4 requirements will apply unless the criteria in R316.5.3 is met.</i>
55	7/28/09	R316.5.4		Foam plastic exposed to crawl space must be covered with ignition barrier, less restrictive than UDC	<i>R316.4 requirements will apply unless the criteria in R316.5.4 is met.</i>
56	7/28/09	R316.5.7		Foam backer board on siding	<i>1/2" thickness rule applies unless foam meets criteria in R316.6</i>
57	7/28/09	R316.5.9 & 10	21.11(1)(c)	Flame spread ratings required for foam plastic interior finishes	Requirement not in UDC, amend to include exceptions in UDC
58	7/28/09	R316.5.11		IRC would not permit foam sheathing in box sill w/o thermal barrier	Delete the word "spray" in IRC code section R316.5.11
59	7/28/09	R317.1 # 7.		IRC requires vapor barrier for wood framing members attached to concrete walls below grade if using untreated lumber	Amend to not permit vapor barriers at all due to concerns with moisture accumulation between concrete wall and vapor barrier
60	7/28/09	R317.1.3		IRC governs use of decay resistant wood in certain geographical areas	Not in UDC
61	7/28/09	R317.1.5		IRC requires structural lumber to be pressure treated if exposed (not under roof, eave or other protective covering)	Eliminate this requirement
62	7/28/09	R317.3.1 ex. 1		1/2" or larger fastener bolts exempt from protective coating requirement	Recent information indicates that such fasteners are corroding
63	7/28/09	R317.4		IRC addresses wood/plastic composites	Not in UDC
64	7/28/09	R318		Protection against subterranean termites	Not in UDC
65	7/28/09	R319		IRC requires address numbers on house	Delete this requirement, normally in Zoning Code
66	7/28/09	R320		Accessibility for 4 or more dwelling/sleeping units	Not in UDC, would not apply, delete requirement
67	7/28/09	R321		Elevators and platform lifts	Amend to current UDC/COMM 18 language

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UDC/IRC COMPARISON

	A	B	C	D	E
68	7/28/09	R322		Flood resistant construction	Amend to conform to state regulations
69	7/28/09	R323		Storm shelters	Not in UDC
70					
71				CHAPTER -4 FOUNDATIONS	
72	7/28/09	R401.3	21.12	IRC requires 6" drop in 10' for grade adjacent to house	Amend to incorporate UDC language which addresses rate of drop
73	7/28/09	R402		Wood foundations	More comprehensive than UDC
74	7/28/09	R403.3	21.16(2)	Frost protected shallow foundations	Specific language contained in IRC
75	7/28/09	R403.1	21.15	IRC minimum footing thickness is 6", UDC is 8"	
76	7/28/09			Trench foundations not clearly addressed in IRC	To be researched
77	7/28/09	R403.1.5	21.15	Slope at bottom of footing	Not in UDC
78	7/28/09	R403.1.6	21.18	Foundation anchorage	More comprehensive than UDC
79	7/28/09	R403.1.7		Footings on or adjacent to slopes	Needs further study
80	7/28/09	R403.1.8		Foundations on expansive soils	Needs further study
81	7/28/09	R403.4		Crushed stone footings for pre-cast concrete foundations	Not in UDC
82	8/25/09	R404		IRC does not recognize trench foundations	Amend to include provisions for trench foundations
83	8/25/09	R404.1.1		IRC allows rubble foundations	Not in UDC
84	8/25/09	R404.1.2.4	21.18(2)	Reinforcement required in IRC using ACI 332 Standard used in IRC PCA 100 for poured concrete foundations	Reinforcement may be required in UDC based on unbalanced fill height, ACI 318, which is in UDC, has provisions for reinforcement, vertical reinforcement would be required in IRC
85	8/25/09	R404.1.2.4		Seismic provisions	Would not apply in Wisconsin

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UDC/IRC COMPARISON

	A	B	C	D	E
				Committee questioned the relationship between the exception and the code provisions	<i>The defined term "wall" may need to be amended. By the ICC's interpretation, the "wall" thickness includes the exterior sheathing (eg. foam insulation) and the drywall finish. The UDC only considers the wood stud portion of the wall for support on the foundation. Committee recommends that we use apply this term as currently used in the UDC.</i>
86	8/25/09	R404.1.5.2			
87	8/25/09	R404.1.5.3		Pier and curtain walls	Not in UDC
88	8/25/09	R404.1.6	21.10(1)	Min. height above grade for foundation wall is 4" in IRC	UDC approaches this requirement similarly through decay protection
89	8/25/09	R404.1.7	21.18, 21.02	IRC requires 1st floor to be on foundation <u>and</u> anchored prior to backfilling	UDC requires this indirectly through foundation wall tables
90	8/25/09	R404.2	20.24(2)	IRC directly addresses wood foundations	UDC indirectly addresses wood foundations through referenced standard
91	8/25/09	R404.5		IRC addresses precast concrete walls	Not in UDC
92	8/25/09	R404.4		IRC governs retaining walls that are part of foundation	Not in UDC
93	8/25/09	R404.3	21.22(1)(b)	IRC has min. nominal 2" requirement for sill plates, if used	No minimum requirement in UDC
94	8/25/09	R403.1.6	21.22(1)	IRC only permits sill plates and bolts for anchorage	UDC has same requirement but allows other options. Potential amendment to include UDC provisions.
95	8/25/09	R405	21.17(2)	In IRC, depending on soil classification, foundation drainage may not be required	UDC bases the need on the height of water table and approval of AHJ
96	8/25/09	R406	21.18(3)	IRC requires damp proofing for both masonry and poured concrete walls	UDC only requires damp proofing on masonry foundation walls
97	8/25/09	R407.2		IRC requires protective coatings on inside and outside for columns	Not addressed in UDC, consider deleting this section
98					
99				CHAPTER-5 FLOORS	

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UDC/IRC COMPARISON

	A	B	C	D	E
100	8/25/09	R502.2.2	21.225	IRC addresses deck ledger connections	Not in UDC, requires further study
101	8/25/09	R502.3.2	21.02(1)	Need to delete "other than sleeping rooms", also delete table R502.3.1(1)	Based on previous live load change from Planning Chapter 3
102	8/25/09	R502.3.3	21.22(6)	Floor cantilevers. Consider changing 2nd & 3rd sentences in this section to read as exceptions. This change would be more consistent with IRC format	
103	8/25/09	R502.6.2	21.22(4)(a)1.c.	IRC requires min. 3" for joist overlaps, UDC requires max. 6"	Note difference
104	8/25/09	R502.7	21.22(4)1.d.	IRC requires joist overlaps to be blocked	Similar requirement with additional options in UDC
105	8/25/09	R502.7.1	21.22(9)	Bridging: IRC requires bridging for 2 x 12 or greater, UDC is 2 x 8 or greater	Note difference
106	8/25/09	Table R602.3(1)	See fastener schedule in UDC Appendix	IRC specifies 3.5" length for 16d nails, UDC only specifies 16d	DCOMM uses ICS ESR report 1327 specifies equivalency of nail strengths, Committee to consider permitting industry standard 3" 16d nail vs. 3.5" nail
107	8/25/09	R502.10	21.22(7)	Framing of openings less restrictive in IRC for tail joists (12' vs. 8')	Maintain 8' requirement
108	8/25/09	R503.3	21.22(8)(c) ??	IRC contains a standard for particle board underlayment	
109	8/25/09	R504	21.205	IRC is more descriptive for wood floors in contact with ground	Indirectly addressed in UDC
110	8/25/09	R505	20.24(1)	IRC contains a section for light gauge steel frames floors	Indirectly addressed in UDC
111	8/25/09	R506.1	21.20, 21.203	IRC requires a concrete floor thickness of 3.5" for all concrete floors, UDC requires 3" for basement and 4" for garage floors	Note difference
112	8/25/09	R506.2.1	21.20(2), 21.203	IRC more restrictive for fill materials below concrete floors	Requires further discussion and possible amendment to establish approved process acceptable throughout state
113	8/25/09	R506.2.3	21.20(2)	IRC appears to require vapor barriers in garages	Not required in UDC
114	8/25/09	R506.2.3	22.38(3)	IRC less restrictive for vapor barrier termination, IRC only requires that the VB terminate at base course of wall where UDC requires the VB to run up wall 6".	
115					
116				CHAPTER-6 WALL CONSTRUCTION	

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UDC/IRC COMPARISON

	A	B	C	D	E
117	9/29/09	R601.2.1	22.38(4)	IRC allows vapor barrier as option for below grade exterior walls, UDC prohibits the plastic sheeting but permits paint as a vapor barrier	Need to maintain prohibitions in 22.38(4) for Class 1 & 2 vapor barriers
118	9/29/09	R602.1.3	UDC (State law allows self-grading on lumber	Lumber grade of structural log members addressed in IRC	
119	9/29/09	R602.3.2	21.24(2)	Top plate overlap less restrictive in IRC	
120	9/29/09	R602.6	21.24(4)	IRC does not appear to address notching/boring of columns	A definition for columns may need to be created. <i>R602.6 applies to all conditions. For questionable stud borings, the AHJ could ask for engineering analysis. Committee would recommend that a clear distinction be identified in the code between a column and typical header/jack studs.</i>
121	9/29/09	R602.7.1		Wood structural panel box header permitted in IRC	
122	9/29/09	R602.6.1	21.24(2)(b)	Notching of top plates for pipes/ducts less restrictive in IRC	
123	9/29/09	R602.10	23.25(8)	2009 IRC wall bracing methods currently adopted by reference in UDC	
124	9/29/09	R602		Seismic provisions in R602 would not be required in Wisconsin	
125	9/29/09	R603	21.02(2)(c)	Light gauge steel wall framing addressed in IRC, UDC addresses this in 21.02(2)(c), Table 22.32, 20.24 adopts AISC 360 Standard	
126	9/29/09	R607	21.26	Unit masonry section, each code is similar but each discuss specific requirements in greater detail - IRC discusses more of what is in the standard while the UDC references the standard	
127	9/29/09	R609.1	21.18(3)(b)1., table 21.18-C footnote b	Grouted masonry requirements addressed in this IRC section while UDC is in the foundation section	
128	9/29/09	R610	21.05(3)	IRC addresses glass unit masonry. Addressed in UDC through the safety glazing section	
129	9/29/09	R607	21.26	Masonry walls - IRC requirements are in one section while UDC references multiple sections	

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	A	B	C	D	E
130	9/29/09	R610.6		IRC addresses glass block installations at the sill	Not in UDC
131	9/29/09	R611		This is a new section in 2009 IRC that merges the requirements for flat insulated concrete form (ICF) walls, waffle-grid walls and conventionally formed above-ground concrete walls and provides very detailed prescriptive construction methods for such walls with option to use accepted industry standards	Matches PCA 100
132	9/29/09	R612		Exterior windows and doors - Requires fall protection in 2nd story rooms or window sill height greater than 6' above grade	Not in UDC, recommend removal of R612.2 to R612.4.2
133	9/29/09	R612.5		IRC has performance requirements for exterior windows and doors, including garage doors for wind speed/resistance/wind borne debris/structural strength	Not in UDC
134	9/29/09	R613		Structural Insulated Panels (SIPS) in IRC	Not in UDC, need to discuss this w/SIPS professional to verify that this section is not product or manufacturer specific
135					
136				CHAPTER-7 WALL COVERINGS	
137	9/29/09	R701.2	21.24(2)	IRC addresses wall coverings for both interior and exterior wall coverings and protection of components from adverse weather conditions	Recommendation to amend code to follow manufacturer's recommendations
138	9/29/09	R702.3		IRC addresses detailed requirements for gypsum construction	Not in UDC
139	9/29/09	R703.2	21.24(4)(e)	UDC language for penetrations on exterior water resistive barriers is more prescriptive	
140	9/29/09	R703.2		Water resistive barriers. Remove exception 2. in IRC, unnecessary code provision	
141	9/29/09	R703.5		Wood shingles addresses in IRC	Not in UDC
142	9/29/09	R703.7.6	21.26(7)(a)4.	Weep hole spacing is 33" O.C. in IRC and 24" O.C. in UDC, IRC does not require ventilation at top of brick wall and UDC does	
143	9/29/09	R703.9		IRC addresses exterior insulation finish systems (EIFS)	Not in UDC

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	A	B	C	D	E
144	9/29/09	R703.10		IRC addresses fiber cement siding installation and materials	Not in UDC
145					
146				CHAPTER-8 ROOF-CEILING CONSTRUCTION	
147	10/27/09	R802.5.1		Purlin and support bracing permitted <u>as an option</u> in the IRC to reduce rafter sizing.	
148	10/27/09	R802.8.1		IRC requires various bridging methods for roof rafters and ceiling joists required for 2" x 14" or larger wood members in IRC	
149	10/27/09	R202	21.02(2)	The IRC defines a "Registered Design Professional" and requires the RDP to sign off on documents requiring engineering analysis.	Committee recommendation is to revise this definition and all other similar language in IRC to require structural analysis only (without engineering seal) where IRC requires a registered design professional. An exception to this change would be alterations to an engineered product or component such as a truss under R802.10.4. This is consistent with UDC.
150	10/27/09	R803.2.1.2		Insert words "if used" at the beginning of this section which includes specifications for fire retardant treated lumber	
151	10/27/09	R804		IRC addresses steel roof framing	Not in UDC
152	10/27/09	R805		This section regulates ceiling finishes and basically refers the user back to R702 for interior coverings	Not in UDC
153	10/27/09	R806.1		IRC is more specific as to the dimensional openings for attic vent materials	
154	10/27/09	R806.3		IRC requires 1" air space above insulation, UDC does not and relies on manufacturer's recommendation	
155	10/27/09	R806.1	22.39(2)(a)6.	UDC does not require roof vents for dormers or small roof sections under 40 sq. ft., IRC requires vents for all attic spaces	

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UDC/IRC COMPARISON

	A	B	C	D	E
156	10/27/09	R807.1	21.07	IRC requires attic access to be 22" x 30" and UDC requires 14" x 20". The IRC also requires the scuttle access to have a 30" vertical clearance immediately above the scuttle opening. UDC does not specify the location of the scuttle opening. For required attic access, UDC threshold is 150 sq. ft., IRC threshold is 30 sq. ft.	Recommendation is to keep this the same as UDC.
157					
158				CHAPTER-9 ROOF ASSEMBLIES	
159	10/27/09	R903.5		IRC addresses hail exposure conditions	Not in UDC
160	10/27/09	R907.3	21.28(6)	IRC addresses reroofing, UDC has some new reroofing regulations	
161	10/27/09	R905.2.2		IRC addresses minimum slope for asphalt roofing	Not in UDC
162	10/27/09	R905.1/R905.2		Appears to be a conflict in the IRC as to whether you have to follow the manufacturer's requirements or the code provisions in the referenced sections.	It should be one or the other. Committee recommends amending the words "and the" to "or" in first sentence in R905.1.
163	10/27/09	R905.2.2		Roof slope for asphalt shingles.	This section requires further discussion
164	10/27/09	R905.2.7.1	21.28(4)(b.)	IRC requires 24" of Ice & water shield from inside of wall while UDC is 12"	
165	10/27/09	R905.2.8.2	21.28(7)(b)	IRC requires 24" wide flashing for valley and UDC is 16",	Committee also recommended to make sure that the manufacturer's are also following the ASTM standards.
166	10/27/09	R905.2.8.3		Sidewall flashing addressed in IRC	Not in UDC
167	10/27/09	R905.3.4 & R905.3.5		IRC addresses clay and concrete roof tile	Not in UDC
168	10/27/09	R905.4.4		IRC addresses metal roof panels/coverings	Not in UDC
169	10/27/09	R906		Roof coverings	Not in UDC
170					

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UDC/IRC COMPARISON

	A	B	C	D	E
171				CHAPTER-10 CHIMNEYS AND VENTS	
172	10/27/09	R1001.5	21.29(3)	Masonry firebox walls. IRC requires 8" solid masonry while UDC requires 8" nominal thickness of which 4" min. must be solid	
173	10/27/09	R1001.5.1	21.29	Steel fireplace units addressed in IRC.	
174	10/27/09	R1001.9.1	21.29(6)	IRC requires 2" min. hearth thickness	No minimum in UDC
175	10/27/09	R1001.11	21.29(12) & 21.30(9)	IRC allows for exceptions to less than 2" clearance to masonry chimneys	UDC allows a 1" clearance on the exterior chimneys
176	10/27/09	R1002		IRC addresses masonry heaters	Not in UDC
177	10/27/09	R1003.2	21.15(2)(d)	IRC requires min. 6" footing extension for masonry fireplace footings, UDC requires 4" min.	
178	10/27/09	R1003.5	21.30(4)	Masonry chimney corbelling differences between each code.	
179	10/27/09	R1006 & R1007		Masonry chimney changes in dimension and flue liner offsets	Not in UDC
180	10/27/09	R1003.16	21.30(5)	UDC requires that chimney inlet must be installed at time of construction, IRC does not require installation at time of construction	
181	10/27/09	R1003.17	21.30(6)	IRC requires specific size and location for clean-out where UDC only requires a clean-out. IRC does not require clean-out if accessible through the fireplace opening.	
182	10/27/09	R1003.13	21.30(3)	Minor differences between codes for multiple flue separation requirements	
183	10/27/09	R1006	23.06(1)	IRC has more detail in code for exterior air supply for fireplaces	
184	10/27/09	R1005.2		IRC has specific requirements for decorative shrouds (chase enclosures) around fireplace chimney terminations	Not in UDC
185					

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UDC/IRC COMPARISON

	A	B	C	D	E
186				CHAPTER-11 ENERGY EFFICIENCY	
187	11/17/09	N1102.1	22.31(1)(b)	IRC climate zone boundaries positioned similarly as UDC	UDC Zone-1 is equivalent to IRC Zone 6 , UDC Zone-2 is equivalent to IRC zone 7
188	11/17/09	IRC Table N1102.1	UDC Table 22.31-1	Fenestration, skylight, ceiling R & U factors same in both codes, wall R-value increased to R-20 in 2009 in IRC for cavity only insulation versus R-19 in UDC	
189	11/17/09	IRC Table N1102.1	Table 22.31-1, Note f	footnote f. in UDC table permits compression in wall cavity, IRC has R-20 for wood frame VS UDC of R-19	
190	11/17/09	IRC Table N1102.2	Table 22.31-1	Footnote k. is not in UDC, UDC matches 2006 IRC	
191	11/17/09	IRC Table N1102.3	Table 22.31-1	"Slab R value & depth" in table N1102.1 are different than UDC	
192	11/17/09		Table 22.31-3	As part of the U-factor tables, UDC has a lower equipment efficiency table (where you must install a higher level of insulation) which is not in IRC	
193	11/17/09		Table 22.31-2	UDC has an error, basement wall U value should be 0.059 not 0.065	INFORMATIONAL ONLY
194	11/17/09	N1102.2.3	22.37(3)(a)	Both UDC & IRC require weatherstripping of access hatches and doors between conditioned and unconditioned spaces	
195	11/17/09	N1102.2.4	22.32	Scuttle panel insulation shall be the same R-value as the attic insulation	Not specifically mentioned in UDC
196	11/17/09	N1102.2.10	22.32	IRC spells out that insulation is not required on the horizontal portion of the foundation that supports the masonry veneer.	Not specifically mentioned in UDC
197	11/17/09	N1102.4 #9		Air sealing between dwelling units required in IRC	Not in UDC
198	11/17/09	N1102.4.2.1	22.37	IRC specifies testing options for air leakage	Not in UDC
199	11/17/09		Table 22.36-2	There are default values in the UDC for exterior doors with or without storm doors	Not in IRC
200	11/17/09	Table 601.3.1	22.38	In Zones 6 & 7, the IRC would not allow a class 3 Vapor barrier when the house is sheathed with OSB or plywood	Permitted in UDC
201	11/17/09	N1102.4.3	21.32(1)(b)	IRC requires all wood burning fireplaces to have a gasketed door	Not specifically mentioned in UDC

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UDC/IRC COMPARISON

	A	B	C	D	E
202	11/17/09	N1103.2.1	22.42	Duct insulation requirements in IRC are less restrictive than UDC, IRC requires R-6 in areas other than the attic which are outside of the thermal envelope.	
203	11/17/09	1103.2.2	22.43	IRC requires a system tightness testing for ducts located outside the conditioned space	Committee recommends removal of this requirement
204	11/17/09	N1103.3 & .4	22.44	Pipe insulation requirements less restrictive in the UDC for boilers	The UDC only addresses insulating of piping outside the thermal envelope
205	11/17/09	N1103.3 & .4	22.44	Pipe insulation requirements less restrictive in the UDC for recirculating hot water pipes	The UDC only addresses insulating of piping outside the thermal envelope
206	11/17/09	N1103.8		IRC addresses pool heater efficiencies	Not in UDC
207	11/17/09	N1103.7		IRC addresses snow and ice-melting systems, including sidewalks	Not in UDC
208	11/17/09	N1104		IRC designates certain lighting efficiencies for at least 50% of the lamps in the home	Not in UDC
209					
210				CHAPTER-12 MECHANICAL ADMINISTRATION	
211	11/17/09	Chapter 12		Mechanical Administration. This is an administrative chapter that would be amended by Dcomm	
212	11/17/09		22.50 - 22.53	UDC has simulated performance alternatives for energy trade-offs	Not in IRC
213					
214				CHAPTER-13 GENERAL MECHANICAL SYSTEM REQUIREMENTS	
215	11/17/09	M1305.1.2		Appliance access in IRC conflicts with State Electrical Code	
216	11/17/09	M1307.4		IRC addresses hydrogen generating systems	Not in UDC
217	11/17/09	M1305.1.3 & .4	21.07	The IRC requires the attic and underfloor space openings to be large enough to remove the appliance	Not in UDC

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UDC/IRC COMPARISON

	A	B	C	D	E
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219				CHAPTER-14 HEATING AND COOLING EQUIPMENT	
220	11/17/09	M1401.3	23.02(1)	A more thorough review is needed to compare the air temperature design criteria between the two codes	
221	11/17/09	M1410	23.04(2)(b)	UDC prohibits the use of unvented space heaters, IRC allows them	
222	11/17/09	P2802	23.04(5)	<i>UDC allows water heaters for space heating, this item would be more appropriately placed in IRC Ch. 14 Mechanical section</i>	
223	11/17/09	M1407	23.04(3)	IRC addresses duct heaters specifically	Generally addressed by listing in UDC
224	11/17/09	M1408	23.04(3)	IRC addresses vented floor furnaces specifically	Generally addressed by listing in UDC
225	11/17/09	M1410	23.04(3)	IRC addresses vented room heaters specifically	Generally addressed by listing in UDC
226	11/17/09	M1411.4		Auxiliary drain pan required for AC condensates in IRC	Not in UDC
227	11/17/09	1411.3.1	23.156	IRC specifies drain system requirements for AC condensates	Not in UDC
228	11/17/09	M1411.5		AC refrigerant lines require additional R-value in IRC	Not in UDC
229	11/17/09	M1412		IRC addresses absorption cooling equipment	Not in UDC
230	11/17/09	M1413		IRC addresses evaporative cooling equipment	Not in UDC
231					
232				CHAPTER-15 EXHAUST SYSTEMS	
233	1/26/10				
234	end				

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UDC/IRC COMPARISON

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TASK FORCE COMMITTEE

UDC/IRC COMPARISON

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TASK FORCE COMMITTEE

UDC/IRC COMPARISON

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TASK FORCE COMMITTEE

UDC/IRC COMPARISON

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TASK FORCE COMMITTEE

UDC/IRC COMPARISON

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TASK FORCE COMMITTEE

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TASK FORCE COMMITTEE

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TASK FORCE COMMITTEE

UDC/IRC COMPARISON

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