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TITLE 675 FIRE PREVENTION AND BUILDING SAFETY COMMISSION

Proposed Rule

LSA Document #04-273

DIGEST

Amends 675 IAC 14-4.3, the 2005 Indiana Residential Code, so as not to be in conflict with provisions of the 2005 Indiana Electrical Code, 675 IAC 17-1.7. Adds 675 IAC 17-1.7, which adopts by reference and amends the 2005 National Electrical Code as the Indiana Electrical Code, 2005 Edition. Repeals 675 IAC 14-4.3-213, 675 IAC 14-4.3-216, 675 IAC 14-4.3-244, 675 IAC 14-4.3-250, 675 IAC 14-4.3-251, 675 IAC 14-4.3-252, and 675 IAC 17-1.6. Effective 30 days after filing with the secretary of state.

675 IAC 14-4.3-136.5	675 IAC 14-4.3-232
675 IAC 14-4.3-155.5	675 IAC 14-4.3-232.5
675 IAC 14-4.3-212	675 IAC 14-4.3-233
675 IAC 14-4.3-213	675 IAC 14-4.3-234
675 IAC 14-4.3-213.5	675 IAC 14-4.3-238.5
675 IAC 14-4.3-214	675 IAC 14-4.3-240
675 IAC 14-4.3-215	675 IAC 14-4.3-240.5
675 IAC 14-4.3-216	675 IAC 14-4.3-241
675 IAC 14-4.3-219.3	675 IAC 14-4.3-243.5
675 IAC 14-4.3-219.3	675 IAC 14-4.3-244
675 IAC 14-4.3-219.5	675 IAC 14-4.3-246
675 IAC 14-4.3-219.6	675 IAC 14-4.3-246.5
675 IAC 14-4.3-219.7	675 IAC 14-4.3-247.5
675 IAC 14-4.3-219.8	675 IAC 14-4.3-248.5
675 IAC 14-4.3-225.2	675 IAC 14-4.3-250
675 IAC 14-4.3-226.1	675 IAC 14-4.3-251
675 IAC 14-4.3-226.5	675 IAC 14-4.3-252
675 IAC 14-4.3-226.6	675 IAC 14-4.3-253.5
675 IAC 14-4.3-227	675 IAC 14-4.3-253.7
675 IAC 14-4.3-228.5	675 IAC 17-1.6
675 IAC 14-4.3-230	675 IAC 17-1.7
075 1110 14-4.5-250	0/5/110 1/-1./

SECTION 1. 675 IAC 14-4.3, PROPOSED TO BE ADDED AT 28 IR 268, SECTION 1, IS AMENDED BY ADDING A NEW SECTION TO READ AS FOLLOWS:

675 IAC 14-4.3-136.5 Section R1004.1; general Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 136.5. Add a new sentence to the end of SECTION R1004.1 to read as follows: Factory-built fireplaces shall be bonded to the service equipment enclosure, the grounded conductor at the service, the grounding electrode conductor where of sufficient size, or to the one or more grounding electrodes used in accordance with SECTION E3509.8. (*Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-136.5*)

SECTION 2. 675 IAC 14-4.3, PROPOSED TO BE ADDED AT 28 IR 268, SECTION 1, IS AMENDED BY ADDING A NEW SECTION TO READ AS FOLLOWS:

675 IAC 14-4.3-155.5 Section G2411.1; gas pipe bonding Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 155.5. Delete the text of SECTION G2411.1 and add text to read as follows: All metal gas piping upstream from the equipment shutoff valve(s) shall be electrically continuous and shall be bonded to an effective ground-fault current path in accordance with SECTION E3509.7. Except where connected to appliances and at bonding connections, flexible metal gas piping shall be isolated from metal water piping, metal air ducts, and all electrical wiring methods by a space separation of at least 2 inches. (*Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-155.5*)

SECTION 3. 675 IAC 14-4.3-212, PROPOSED TO BE ADDED AT 28 IR 305, SECTION 1, IS AMENDED TO READ AS FOLLOWS:

675 IAC 14-4.3-212 Section E3305.6; illumination Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 212. Add a sentence to the end of SECTION E3305.6 to read as follows: Additional lighting fixtures outlets shall not be required where the work space is illuminated by an adjacent artificial light source. *(Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-212)*

SECTION 4. 675 IAC 14-4.3, PROPOSED TO BE ADDED AT 28 IR 268, SECTION 1, IS AMENDED BY ADDING A NEW SECTION TO READ AS FOLLOWS:

675 IAC 14-4.3-213.5 Section E3307.1; grounded conductors Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 213.5. In the second sentence of SECTION E3307.1, after "distinctive white", add "or gray". (Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-213.5)

SECTION 5. 675 IAC 14-4.3-214, PROPOSED TO BE ADDED AT 28 IR 306, SECTION 1, IS AMENDED TO READ AS FOLLOWS:

675 IAC 14-4.3-214 Section E3401; general Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 214. Change SECTION E3401 as follows: (a) Delete the definition of APPROVED and substitute to read as follows: See the definition of APPROVED in SECTION R202.

(b) Delete the definition of BRANCH CIRCUIT, GENERAL PURPOSE and substitute: A branch circuit that supplies two or more receptacles or outlets for lighting and appliances.

(c) Change the definition of Grounding Conductor, Equipment to read as follows: The conductor used to connect the noncurrentcarrying metal parts of equipment, raceways, and other enclosures to the system grounded conductor or the grounding electrode conductor, or both, at the service equipment or at the source of a separately derived system.

(d) Change the definition of Grounding Electrode Conductor to read as follows: The conductor used to connect the grounding electrode(s) to the equipment grounded conductor or to the grounded conductor, or to both, at the service equipment, at each building or structure where supplied from a common service, or at the source of a separately derived system.

(c) Delete the definition of GROUND-FAULT CIRCUIT-INTERRUPTER and substitute: A device intended for the protection of personnel that functions to de-energize a circuit or portion thereof within an established period of time when a current to ground exceeds the values established for a Class A device.

(f) (e) Delete the definition of LABELED and substitute as follows: See the definition of LABELED in SECTION R202.

(g) (f) Delete the definition of LISTED and substitute to read as follows: See the definition of LISTED AND LISTING in SECTION R202. (*Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-214*)

SECTION 6. 675 IAC 14-4.3-215, PROPOSED TO BE ADDED AT 28 IR 306, SECTION 1, IS AMENDED TO READ AS FOLLOWS:

675 IAC 14-4.3-215 Section E3501.6.2; service disconnect location Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 215. (a) Delete the first sentence of SECTION E3501.6.2 and substitute to read as follows: The service disconnecting means shall be installed at a readily accessible location outside of a building or structure.

(b) At the end of SECTION E3501.6.2, add a sentence to read as follows: Conductors shall be considered outside of a building or structure under any of the following conditions:

(1) where installed under not less than 2 inches (51 mm) of concrete beneath a building or other structure,

(2) where installed within a building or other structure in a raceway that is encased in concrete or brick **not less than 2 inches thick, or**

(3) where installed in conduit and under not less than 18 inches (457 mm) of earth beneath a building or other structure. *(Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-215)*

SECTION 7. 675 IAC 14-4.3, PROPOSED TO BE ADDED AT 28 IR 268, SECTION 1, IS AMENDED BY ADDING A NEW SECTION TO READ AS FOLLOWS:

675 IAC 14-4.3-219.3 Section E3508.1; grounding electrode system Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 219.3. (a) In the first sentence of SECTION E3508.1, delete "available" and insert "present".

(b) After the text of SECTION E3508.1, add an exception to read as follows: Exception: Concrete-encased electrodes of existing buildings or structures shall not be required to be part of the grounding electrode system where the steel reinforcing bars or rods are not accessible for use without disturbing the concrete. (*Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-219.3*)

SECTION 8. 675 IAC 14-4.3, PROPOSED TO BE ADDED AT 28 IR 268, SECTION 1, IS AMENDED BY ADDING A NEW SECTION TO READ AS FOLLOWS:

675 IAC 14-4.3-219.5 Section E3509.7; bonding other metal piping Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 219.5. Before the period following the next to last sentence in SECTION E3509.7, add "if connected using a fixed wiring method". (*Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-219.5*)

SECTION 9. 675 IAC 14-4.3, PROPOSED TO BE ADDED AT 28 IR 268, SECTION 1, IS AMENDED BY ADDING A NEW SECTION TO READ AS FOLLOWS:

675 IAC 14-4.3-219.6 Section E3509.8; factory-built fireplace bonding Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 219.6. Add a new SECTION E3509.8, entitled factory-built fireplace bonding, to read as follows: Factory-built

fireplaces shall be bonded to the service equipment enclosure, the grounded conductor at the service, the grounding electrode conductor where of sufficient size, or to the one or more grounding electrodes used. The bonding jumper shall be sized in accordance with Table E3503.1. The point of attachment of the bonding jumper shall be accessible. (*Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-219.6*)

SECTION 10. 675 IAC 14-4.3, PROPOSED TO BE ADDED AT 28 IR 268, SECTION 1, IS AMENDED BY ADDING A NEW SECTION TO READ AS FOLLOWS:

675 IAC 14-4.3-219.7 Section E3510.1; installation Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 219.7. Change SECTION E3510.1 as follows: (a) In the second sentence of SECTION E3510.1, delete "severe".

(b) In the third sentence of SECTION E3510.1, after "grounding", add "electrode".

(c) In the third sentence of SECTION E3510.1, delete "and".

(d) In the third sentence of SECTION E3510.1, before "rigid nonmetallic conduit", add "Schedule 80".

(e) In the fourth sentence of SECTION E3510.1, after "grounding", add "electrode".

(f) In the fourth sentence of SECTION E3510.1, before "rigid nonmetallic conduit", add "Schedule 80".

(g) In the first sentence of the second paragraph of SECTION E3510.1, delete "Insulated or bare" and insert "Bare". (Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-219.7)

SECTION 11. 675 IAC 14-4.3, PROPOSED TO BE ADDED AT 28 IR 268, SECTION 1, IS AMENDED BY ADDING A NEW SECTION TO READ AS FOLLOWS:

675 IAC 14-4.3-219.8 Section E3510.2; enclosures for grounding electrode conductors Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 219.8. (a) In the first and second sentences of SECTION E3510.2, delete "Metal" and insert "Ferrous metal".

(b) In the second and third sentences of SECTION E3510.2, insert "electrode" between "grounding" and "conductor". (*Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-219.8*)

SECTION 12. 675 IAC 14-4.3, PROPOSED TO BE ADDED AT 28 IR 268, SECTION 1, IS AMENDED BY ADDING A NEW SECTION TO READ AS FOLLOWS:

675 IAC 14-4.3-225.2 Section E3603.1; branch circuits for heating Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 225.2. Add an exception to the end of SECTION E3603.1 to read as follows: Exception: Permanently connected airconditioning equipment shall be permitted to be connected to the same branch circuit. (*Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-225.2*)

SECTION 13. 675 IAC 14-4.3, PROPOSED TO BE ADDED AT 28 IR 268, SECTION 1, IS AMENDED BY ADDING A NEW SECTION TO READ AS FOLLOWS:

675 IAC 14-4.3-226.1 Table E3701.4; allowable applications for wiring methods Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 226.1. In the third column, in the sixteenth line of TABLE E3701.4, delete "--" and insert "A". (Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-226.1)

SECTION 14. 675 IAC 14-4.3, PROPOSED TO BE ADDED AT 28 IR 268, SECTION 1, IS AMENDED BY ADDING A NEW SECTION TO READ AS FOLLOWS:

675 IAC 14-4.3-226.5 Section E3702.4; in unfinished basements Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 226.5. At the end of SECTION E3702.4, add the following: NM cable used on a wall of an unfinished basement shall be installed in a listed conduit or tubing. Conduit or tubing shall utilize a nonmetallic bushing or adapter at the point the cable enters the raceway. Metal conduit and tubings and metal outlet boxes shall be grounded. (*Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-226.5*)

SECTION 15. 675 IAC 14-4.3, PROPOSED TO BE ADDED AT 28 IR 268, SECTION 1, IS AMENDED BY ADDING A NEW SECTION TO READ AS FOLLOWS:

675 IAC 14-4.3-226.6 Section E3703.3; grounding Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 226.6. Delete SECTION E3703.3 without substitution. (*Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-226.6*)

SECTION 16. 675 IAC 14-4.3-227, PROPOSED TO BE ADDED AT 28 IR 307, SECTION 1, IS AMENDED TO READ AS FOLLOWS:

675 IAC 14-4.3-227 Section E3703.4; protection from damage Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 227. In Delete the third sentence of SECTION E3703.4 delete "service laterals" and substitute "underground service conductors": without substitution. (Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-227)

SECTION 17. 675 IAC 14-4.3, PROPOSED TO BE ADDED AT 28 IR 268, SECTION 1, IS AMENDED BY ADDING A NEW SECTION TO READ AS FOLLOWS:

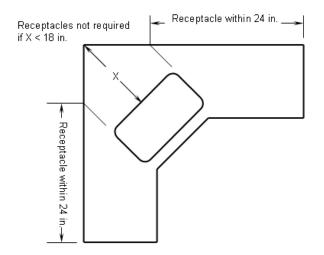
675 IAC 14-4.3-228.5 Section E3801.4.1; wall counter space Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 228.5. (a) After SECTION E3801.4.1, add an exception to read as follows: Exception: Receptacle outlets shall not be required on a wall directly behind a range or sink in the installation described in FIGURE E3801.4.1.

(b) After SECTION E3801.4.1, add FIGURE E3801.4.1 as follows:

Receptacle within 24 in.	Receptacle not required if X < 12 in.	Receptacle within 24 in.
	↑ ×	
)]

Sink or range extending from face of counter



Sink or range mounted in corner

FIGURE E3801.4.1

(Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-228.5)

SECTION 18. 675 IAC 14-4.3-230, PROPOSED TO BE ADDED AT 28 IR 308, SECTION 1, IS AMENDED TO READ AS FOLLOWS:

675 IAC 14-4.3-230 Section E3801.6; bathroom Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 230. (a) In SECTION E3801.6, delete the second sentence and substitute: The receptacle outlet shall be located on a wall or partition that is adjacent to the basin or basin countertop.

(b) Add an exception to SECTION E3801.6 to read as follows: Exception: The receptacle shall not be required to be mounted in the wall or partition where it is installed on the side or face of the basin cabinet not more than 12 inches below the countertop. (*Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-230*)

SECTION 19. 675 IAC 14-4.3-232, PROPOSED TO BE ADDED AT 28 IR 308, SECTION 1, IS AMENDED TO READ AS FOLLOWS:

675 IAC 14-4.3-232 Section E3801.11; HVAC outlet Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7 Sec. 232. (a) In the first sentence of SECTION E3801.11, delete "located in attics and crawl spaces" without substitution.

(b) In the last sentence of SECTION E3801.11, delete "and shall be protected in accordance with SECTION E3802.4" without substitution. (*Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-232*)

SECTION 20. 675 IAC 14-4.3, PROPOSED TO BE ADDED AT 28 IR 268, SECTION 1, IS AMENDED BY ADDING A NEW SECTION TO READ AS FOLLOWS:

675 IAC 14-4.3-232.5 Section E3802.7; bar sink receptacles Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 232.5. (a) In the title of SECTION E3802.7, before "bar sink receptacles", insert "laundry, utility, and wet".

(b) Change the first sentence of SECTION E3802.7 to read as follows: All 125-volt, single-phase, 15- and 20-ampere receptacles that are installed within 6 feet of the outside edge of a laundry, utility, or wet bar sink shall have ground-fault circuit-interrupter protection for personnel. (*Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-232.5*)

SECTION 21. 675 IAC 14-4.3-233, PROPOSED TO BE ADDED AT 28 IR 308, SECTION 1, IS AMENDED TO READ AS FOLLOWS:

675 IAC 14-4.3-233 Section E3802.8; boathouse receptacles Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 233. Change SECTION 3802.8 to read as follows: All 125-volt, single phase, 15- or 20-ampere receptacles **and outlets that supply boat hoists** installed in boathouses shall have ground-fault circuit-interrupter protection for personnel. *(Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-233)*

SECTION 22. 675 IAC 14-4.3-234, PROPOSED TO BE ADDED AT 28 IR 308, SECTION 1, IS AMENDED TO READ AS FOLLOWS:

675 IAC 14-4.3-234 Section E3802.11; bedroom outlets Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 234. In (a) Change SECTION E3802.11 add "receptacle" after to read as follows: All 120-volt, single phase, 15- and 20ampere and before branch circuits supplying receptacle outlets installed in dwelling unit bedrooms shall be protected by a listed arc-fault circuit interrupter, combination type installed to provide protection of the branch circuit. Branch/feeder AFCIs shall be permitted to be used to meet the requirements of SECTION E3802.11 until January 1, 2008.

(b) Add an exception to SECTION E3802.11 to read as follows: Exception: The location of the arc-fault circuit interrupter shall be permitted to be at other than the origination of the branch circuit in compliance with (1) and (2):

(1) The arc-fault circuit interrupter is installed within 6 feet of the branch circuit overcurrent device as measured along the branch circuit conductors.

(2) The circuit conductors between the branch circuit overcurrent device and the arc-fault circuit interrupter shall be installed in a metal receway or a cable with a metallic sheath.

(Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-234)

SECTION 23. 675 IAC 14-4.3, PROPOSED TO BE ADDED AT 28 IR 268, SECTION 1, IS AMENDED BY ADDING A NEW SECTION TO READ AS FOLLOWS:

675 IAC 14-4.3-238.5 Section E3805.12.2.1; conductor fill Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7 Sec. 238.5. After the first sentence of SECTION E3505.12.2.1, insert a new sentence to read as follows: A looped, unbroken conductor not less than twice the minimum length required for free conductors in SECTION E3306.10.3 shall be counted twice. (*Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-238.5*)

SECTION 24. 675 IAC 14-4.3-240, PROPOSED TO BE ADDED AT 28 IR 308, SECTION 1, IS AMENDED TO READ AS FOLLOWS:

675 IAC 14-4.3-240 Section E3806.8.2.1; nails Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 240. (a) Change the title of SECTION heading E3806.8.2.1 to "Nails and screws". In the text, delete "Nails" and insert "Nails and screws".

(b) Add a new sentence at the end of SECTION E3806.8.2.1 to read as follows: Screws shall not be permitted to pass through the box unless exposed threads in the box are protected using approved means to avoid abrasion of conductor insulation. (*Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-240*)

SECTION 25. 675 IAC 14-4.3, PROPOSED TO BE ADDED AT 28 IR 268, SECTION 1, IS AMENDED BY ADDING A NEW SECTION TO READ AS FOLLOWS:

675 IAC 14-4.3-240.5 Section E3807.2; damp or wet locations Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 240.5. (a) At the end of SECTION E3807.2, add a new sentence to read as follows: For enclosures in wet locations, raceways or cables entering above the level of uninsulated live parts shall use fittings listed for wet locations.

(b) Add an exception to SECTION E3807.2 to read as follows: Exception: Nonmetallic enclosures shall be permitted to be installed without the airspace on a concrete, masonry, tile, or similar surface. (*Fire Prevention and Building Safety Commission*; 675 IAC 14-4.3-240.5)

SECTION 26. 675 IAC 14-4.3-241, PROPOSED TO BE ADDED AT 28 IR 309, SECTION 1, IS AMENDED TO READ AS FOLLOWS:

675 IAC 14-4.3-241 Section E3807.7; cables Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 241. (a) At the end of Part 6 in the exception, delete the words ", the applicable article".

(b) After Part 6 of the exception, add Part 7 to read as follows: Where installed as conduit or tubing, the allowable cable fill does not exceed that permitted for complete conduit or tubing systems by SECTION E3804.6. (*Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-241*)

SECTION 27. 675 IAC 14-4.3, PROPOSED TO BE ADDED AT 28 IR 268, SECTION 1, IS AMENDED BY ADDING A NEW SECTION TO READ AS FOLLOWS:

675 IAC 14-4.3-243.5 Section E3808.8.3; nonmetallic sheathed cable Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 243.5. (a) In the first sentence of SECTION E3808.8.3, delete "be permitted to" without substitution.

(b) Delete the second sentence of SECTION E3808.8.3 without substitution. (Fire Prevention and Building Safety Commission;

675 IAC 14-4.3-243.5)

SECTION 28. 675 IAC 14-4.3-246, PROPOSED TO BE ADDED AT 28 IR 309, SECTION 1, IS AMENDED TO READ AS FOLLOWS:

675 IAC 14-4.3-246 Section E3902.10; wet locations other than outdoors Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 246. (a) Delete the title of SECTION E3902.10 and substitute "Exterior and interior wet locations".

(b) In the first sentence of SECTION E3902.10, delete "other than outdoors" without substitution. (Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-246)

SECTION 29. 675 IAC 14-4.3, PROPOSED TO BE ADDED AT 28 IR 268, SECTION 1, IS AMENDED BY ADDING A NEW SECTION TO READ AS FOLLOWS:

675 IAC 14-4.3-246.5 Section E3902.11; bathtub and shower space Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 246.5. Change SECTION E3902.11 to read as follows: A receptacle shall not be installed within or directly over a bathtub or shower stall. (*Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-246.5*)

SECTION 30. 675 IAC 14-4.3, PROPOSED TO BE ADDED AT 28 IR 268, SECTION 1, IS AMENDED BY ADDING A NEW SECTION TO READ AS FOLLOWS:

675 IAC 14-4.3-247.5 Section E3903.10; bathtub and shower areas Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 247.5. After the last sentence in SECTION E3903.10, add a new sentence to read as follows: Luminaires located in this zone shall be listed for damp locations or listed for wet locations where subject to shower spray. (*Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-247.5*)

SECTION 31. 675 IAC 14-4.3, PROPOSED TO BE ADDED AT 28 IR 268, SECTION 1, IS AMENDED BY ADDING A NEW SECTION TO READ AS FOLLOWS:

675 IAC 14-4.3-248.5 Section E4103.1.3; GFCI protection Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 248.5. Add a new sentence to the end of SECTION E4103.1.3 to read as follows: Receptacles that supply pool pump motors and that are rated 15 or 20 amperes, 125 volts through 250 volts, single phase, shall be provided with GFCI protection. (*Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-248.5*)

SECTION 32. 675 IAC 14-4.3, PROPOSED TO BE ADDED AT 28 IR 268, SECTION 1, IS AMENDED BY ADDING A NEW SECTION TO READ AS FOLLOWS:

675 IAC 14-4.3-253.5 Section E4107.2; ground-fault circuit-interrupters required Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 253.5. Add a second paragraph at the end of SECTION E4107.2 to read as follows: All 125-volt receptacles located within 20 feet of the inside walls of a storable pool shall be protected by a ground-fault circuit interrupter. In determining

these dimensions, the distance to be measured shall be the shortest path the supply cord of an appliance connected to the receptacle would follow without piercing a floor, wall, ceiling, doorway with hinged or sliding door, window opening, or other effective permanent barrier. (*Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-253.5*)

SECTION 33. 675 IAC 14-4.3, PROPOSED TO BE ADDED AT 28 IR 268, SECTION 1, IS AMENDED BY ADDING A NEW SECTION TO READ AS FOLLOWS:

675 IAC 14-4.3-253.7 Section E4107.4 receptacle locations Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 253.7. Add a new SECTION E4107.4; receptacle locations, with text to read as follows: Receptacles shall not be less than 10 feet from the inside walls of a pool. In determining these dimensions, the distance to be measured shall be the shortest path the supply cord of an appliance connected to the receptacle would follow without piercing a floor, wall, ceiling, doorway with hinged or sliding door, window opening, or other effective permanent barrier. (*Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-253.7*)

SECTION 34. 675 IAC 17-1.7 IS ADDED TO READ AS FOLLOWS:

Rule 1.7. Indiana Electrical Code, 2005 Edition

675 IAC 17-1.7-1 Adoption by reference Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 1. That certain document, being titled as National Electrical Code, 2005 edition, first printing, and errata to the first printing (errata dated December 24, 2004), published by the National Fire Protection Association, One Batterymarch Park, Quincy, Massachusetts 02269, is hereby incorporated by reference and made a part of the rule, except those portions as are amended and adopted in sections 3 through 26 of this rule. (*Fire Prevention and Building Safety Commission; 675 IAC 17-1.7-1*)

675 IAC 17-1.7-2 Title; availability Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 2. (a) This rule shall be known as the Indiana Electrical Code, 2005 edition, and shall be published, except for incorporated documents, by the fire and building services department for general distribution and use under the title. Whenever the term "this code" is used within this rule, including incorporated documents, it shall mean the Indiana Electrical Code.

(b) This rule, with the incorporated National Electrical Code, 2005 edition, is available for review and reference at the Fire and Building Services Department, 402 West Washington Street, Room W246, Indianapolis, Indiana 46204. (Fire Prevention and Building Safety Commission; 675 IAC 17-1.7-2)

675 IAC 17-1.7-3 Section 90.2; scope Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 3. SECTION 90.2 is amended to read as follows: (A) Covered. This code covers: Installations of electric conductors and equipment within or on Class 1 and Class 2 structures, including industrialized building systems, and other premises wiring covered by rules of the commission in this title.

(B) Class 1 and Class 2 structures covered by the Indiana Residential Code shall be made to comply with the provisions of this code or the electrical provisions of the Indiana Residential Code (675 IAC 14).

Not covered. This code does not cover:

(1) Installations in ships, watercraft, railway rolling stock, aircraft, automotive vehicles, and buildings or structures that are not Class 1 or Class 2 structures.

(2) Installations in underground mines.

(3) Installations of railways for generation, transformation, transmission, or distribution of power used exclusively for operation of rolling stock or installations used exclusively for signaling and communication purposes.

(4) Installations of communication equipment under the exclusive control of communication utilities, located outdoors or in building spaces used exclusively for such installations.

(5) Installations, including associated lighting under the exclusive control of electric utilities for the purpose of communication, or metering; or for the generation, control, transformation, transmission, and distribution of electric energy located in buildings used exclusively by utilities for such purposes or located outdoors on property owned or leased by the utility or on public highways, streets, roads, etc., or outdoors on private property by established rights such as easements.

(6) Installations of electrical wiring, equipment, and devices, factory installed in manufactured homes under the authority of the U.S. Department of Housing and Urban Development (HUD).

(Fire Prevention and Building Safety Commission; 675 IAC 17-1.7-3)

675 IAC 17-1.7-4 Section 90.4; enforcement Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 4. SECTION 90.4 is amended to read as follows: Requirements covering enforcement, granting of variances, and approval of alternate methods or materials are covered in Indiana statutes and 675 IAC 12, the General Administrative Rules of the commission. (*Fire Prevention and Building Safety Commission; 675 IAC 17-1.7-4*)

675 IAC 17-1.7-5 Section 90.6; formal interpretations Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 5. SECTION 90.6 is deleted in its entirety without substitution. (*Fire Prevention and Building Safety Commission; 675 IAC 17-1.7-5*)

675 IAC 17-1.7-6 Section 90.7; examination of equipment for safety Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 6. SECTION 90.7 is deleted in its entirety without substitution. (*Fire Prevention and Building Safety Commission; 675 IAC 17-1.7-6*)

675 IAC 17-1.7-7 Section 90.8; wiring planning Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 7. SECTION 90.8 is deleted in its entirety without substitution. (*Fire Prevention and Building Safety Commission; 675 IAC 17-1.7-7*)

675 IAC 17-1.7-8 Section 90.9; units of measurement Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 8. Delete the text of SECTION 90.9 and substitute the following: For the purpose of this code, the measurement system is the English (U.S. customary or inch-pound) system. Compliance with the numbers shown in the inch-pound system shall constitute compliance with this code. (*Fire Prevention and Building Safety Commission; 675 IAC 17-1.7-8*)

675 IAC 17-1.7-9 Article 100; definitions Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13-2-7; IC 22-13-2-11; IC 22-14-2-10; IC 22-15-2-7; IC 36-7-2-9; IC 36-8-17-9

Sec. 9. (a) In Part I of Article 100, delete the text of the definition of APPROVED and substitute to read as follows: APPROVED. Acceptance by the AUTHORITY HAVING JURISDICTION by one of the following methods: (1) investigation or tests conducted by recognized authorities; or

(2) investigation or tests conducted by technical or scientific organizations; or accepted principles.

The investigation, tests, or principles shall establish that the materials, equipments, and types of construction are safe for their intended purpose.

(b) In Part 1 of Article 100, delete the text of the definition of AUTHORITY HAVING JURISDICTION and substitute to read as follows: AUTHORITY HAVING JURISDICTION. The office of the state building commissioner authorized under IC 22-15-2-7; the office of the state fire marshal authorized under IC 22-14-2-10; the local building official authorized under IC 36-7-2-9 and local ordinance; the fire department authorized under IC 36-8-17-9.

(c) In Part I of Article 100, after the definition of ISOLATED, add the definition of KITCHEN to read as follows: KITCHEN. An area used, or designated to be used, for the preparation of food.

(d) In Part I of Article 100, delete the text of the definition of SPECIAL PERMISSION and substitute to read as follows: SPECIAL PERMISSION. A variance granted by the commission under IC 22-13-2-11 or a variance granted by a political subdivision and approved by the commission under IC 22-13-2-7(b). (*Fire Prevention and Building Safety Commission*; 675 IAC 17-1.7-9)

675 IAC 17-1.7-10 Section 110.16; spaces about electrical equipment Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 10. In SECTION 110.26(A)(1)(b), delete "By special permission" and insert "When approved". (Fire Prevention and Building Safety Commission; 675 IAC 17-1.7-10)

675 IAC 17-1.7-11 Section 210.12; arc-fault circuit-interrupter protection Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 11. In SECTION 210.12(B), dwelling unit bedrooms, delete "outlets" and insert "receptacle outlets". (Fire Prevention and Building Safety Commission; 675 IAC 17-1.7-11)

675 IAC 17-1.7-12 Section 230.2; number of services Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 12. (a) In the second sentence of SECTION 230.2, after "location", insert "as close as practical".

(b) In SECTION 230.2(B), special occupancies, delete "By special permission" and insert "When approved". (Fire Prevention and Building Safety Commission; 675 IAC 17-1.7-12)

675 IAC 17-1.7-13 Section 230.70(A)(1); readily accessible location Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 13. Delete the text of SECTION 230.70(A)(1) and substitute to read as follows: The service disconnecting means shall be installed at a readily accessible location outside of a building or structure. (*Fire Prevention and Building Safety Commission;* 675 IAC 17-1.7-13)

675 IAC 17-1.7-14 Section 250.104; bonding of piping systems and exposed structural steel Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 14. (a) Change the next to last sentence of SECTION 250.104(B) to read as follows: The equipment grounding conductor for the circuit that is likely to energize the piping shall be permitted to serve as the bonding means if connected using a fixed wiring method.

(b) Add a new sentence at the end of SECTION 250.104(B) to read as follows: All metal gas piping upstream from the equipment shutoff valve(s) shall be electrically continuous.

(c) Change the title of SECTION 250.104(C) to read as follows: structural metal and factory-built fireplaces. In the first sentence of SECTION 250.104(C), after "energized", insert ", and factory-built fireplaces". (Fire Prevention and Building Safety Commission; 675 IAC 17-1.7-14)

675 IAC 17-1.7-15 Table 314.16(A); metal boxes Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 15. In the line for $4 \times 1^{1/4}$ inch round/octagonal boxes and in the column for 8AWG conductor, delete "5" and insert "4". (*Fire Prevention and Building Safety Commission; 675 IAC 17-1.7-15*)

675 IAC 17-1.7-16 Section 334.10; uses permitted Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 16. (a) Delete the text of (2) in SECTION 334.10 and substitute: (2) In any building or structure not exceeding three stories (see SECTION 362.10 for the definition of STORY).

(a) For exposed work except as prohibited in SECTION 334.12.

(b) Concealed within walls, floors, and ceilings except as prohibited in SECTION 334.12.

(b) Delete the text of (3) in SECTION 334.10 and substitute: (3) In any building or structure exceeding three stories (see SECTION 362.10 for the definition of STORY), Type NM, Type NMC, and Type NMS cables shall be concealed within walls, floors, and ceilings that provide a thermal barrier of material that has at least a 15-minute finish rating identified in listings of fire-rated assemblies. The 15-minute-finish-rated thermal barrier shall be permitted to be used for combustible walls, floors, and ceilings, except as prohibited in SECTION 334.12.

Exception: Where the building is provided with an approved automatic sprinkler system throughout, Type NM, Type NMC, and Type NMS cables are permitted to be used within walls, floors, ceilings, exposed or concealed, in buildings exceeding three stories.

(Fire Prevention and Building Safety Commission; 675 IAC 17-1.7-16)

675 IAC 17-1.7-17 Section 334.12; uses not permitted Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 17. In SECTION 334.12(A), delete Item (2) without substitution. (Fire Prevention and Building Safety Commission; 675 IAC 17-1.7-17)

675 IAC 17-1.7-18 Section 334.15; unfinished basements Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 18. In the third sentence of SECTION 334.15(C), delete "permitted to be" without substitution. (Fire Prevention and Building Safety Commission; 675 IAC 17-1.7-18)

675 IAC 17-1.7-19 Section 334.80; ampacity Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 19. Delete the second paragraph of SECTION 334.80 without substitution. (Fire Prevention and Building Safety Commission; 675 IAC 17-1.7-19)

675 IAC 17-1.7-20 Section 362.10; uses permitted Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 20. (a) Delete the first two sentences of text in SECTION 362.10 and substitute to read as follows: For the purpose of this section, a story is that portion of a building included between the upper surface of any floor and the upper surface of the floor next above, except that the topmost story shall be that portion of a building included between the upper surface of the topmost floor and the ceiling or roof above. If the finished floor level directly above a usable or unused under-floor space is more than 6 feet above grade for more than 50 percent of the total perimeter or is more than 12 feet above grade at any point, such usable or unused under-floor space shall be considered as a story.

(b) In Item (1), under SECTION 362.10, delete "floors above grade" and substitute "stories".

(c) In Item (2), under SECTION 362.10, delete "floors above grade" and substitute "stories".

(d) In SECTION 362.10, delete the exception to Items (2) and (5) and substitute to read as follows: Where the building is provided with an approved automatic sprinkler system throughout, ENT is permitted to be used within walls, floors, and ceilings, exposed or concealed, in buildings exceeding three stories. (*Fire Prevention and Building Safety Commission; 675 IAC 17-1.7-20*)

675 IAC 17-1.7-21 Section 362.12; uses not permitted Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 21. In Item (7), under SECTION 362.12, uses not permitted, add 362.10(2) to the listed sections. (*Fire Prevention and Building Safety Commission; 675 IAC 17-1.7-21*)

675 IAC 17-1.7-22 Section 406.8(B); wet locations Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 22. (a) Delete subsection 406.8(B)(1) and the text that follows without substitution.

(b) Change subsection 406.8(B)(2) to 406.8(B)(1), change the title from "other receptacles" to "exterior or interior wet locations", and delete the first sentence that follows the title without substitution. (Fire Prevention and Building Safety Commission; 675 IAC 17-1.7-22)

675 IAC 17-1.7-23 Section 525.5(B); clearance to rides and attractions Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 23. In the first sentence of SECTION 525.5(B), delete "4.5 m (15 ft)" and insert "3.048 m (10 ft)". (Fire Prevention and Building Safety Commission; 675 IAC 17-1.7-23)

675 IAC 17-1.7-24 Section 547.1; scope Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 24. Change SECTION 547.1 to read as follows: The provisions of this section shall apply to the following agricultural buildings or that part of a building or adjacent areas of similar or like nature as specified in (A) and (B) below, unless the

building is not a Class 1 structure. Agricultural buildings that are not Class 1 structures may be regulated by local ordinance. (*Fire Prevention and Building Safety Commission; 675 IAC 17-1.7-24*)

675 IAC 17-1.7-25 Section 550.4; general requirements Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 25. Add a second sentence to SECTION 550.4(B) to read as follows: Modular homes, constructed under 675 IAC 15, Industrialized Building Systems, shall comply with the provisions of Article 545 of this code. (Fire Prevention and Building Safety Commission; 675 IAC 17-1.7-25)

675 IAC 17-1.7-26 Section 600.1; scope Authority: IC 22-13-2-2; IC 22-13-2-13 Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 26. Delete the first sentence of SECTION 600.1 and substitute to read as follows: This section covers the installation of conductors and equipment for electric signs and outline lighting as defined in Article 100 of this code that are within or connected to Class 1 or Class 2 buildings or structures. (*Fire Prevention and Building Safety Commission; 675 IAC 17-1.7-26*)

SECTION 35. THE FOLLOWING ARE REPEALED: 675 IAC 14-4.3-213; 675 IAC 14-4.3-216; 675 IAC 14-4.3-244; 675 IAC 14-4.3-250; 675 IAC 14-4.3-251; 675 IAC 14-4.3-252; 675 IAC 17-1.6.

Notice of Public Hearing

Under IC 4-22-2-24, notice is hereby given that on May 17, 2005, at 10:00 a.m., at the Indiana Government Center-South, 402 West Washington Street, Conference Center Room C, Indianapolis, Indiana; **AND** on July 6, 2005 at 10:00 a.m., at the Indiana Government Center-South, 402 West Washington Street, Conference Center Room B, Indianapolis, Indiana the Fire Prevention and Building Safety Commission will hold a public hearing on proposed amendments to provisions of the proposed 2005 Indiana Residential Code, 675 IAC 14-4.3 so as not to be in conflict with provisions of the 2005 Indiana Electrical Code, 675 IAC 17-1.7 and the addition of 675 IAC 17-1.7, which adopts by reference and amends the 2005 National Electrical Code as the Indiana Electrical Code, 2005 Edition and repeals 675 IAC 17-1.6. Copies of these rules are now on file at the Indiana Government Center-South, 402 West Washington Street, Room W246 and Legislative Services Agency, One North Capitol, Suite 325, Indianapolis, Indiana and are open for public inspection.

Secretary Fire Prevention and Building Safety Commission