Title 675 Fire Prevention and Building Safety Commission

Regulatory Analysis
LSA Document #XX-XXX

I. Description of Rule

This proposed rule makes amendments to the existing 2023 NFPA National Electrical Code. The proposed amendments have been drafted to: (1) repeal the 2009 Indiana Electrical Code; and (2) replace the 2009 Indiana Electrical Code with the 2026 Indiana Electrical Code.

a. History and Background of the Rule – The current Indiana Electrical Code, (675 IAC 17-1.8) was adopted and updated in 2009. These rules establish the regulatory framework which set forth enforceable standards for electrical systems and components to protect life, health, and safety of building occupants and the public.

Indiana Code (IC) 22-12-2.5-3 permits the Fire Prevention and Building Safety Commission (Commission) to decide which building codes can be reviewed each calendar year. The Indiana Electrical Code Update Committee (Committee), a subcommittee of the Commission, was tasked with reviewing the 2023 NFPA National Electrical Code. The Committee then made recommendations to alter the rule via proposed amendments that the members felt were appropriate, to update the current Indiana Electrical Code, located at 675 IAC 17-1.8.

It is necessary to repeal the 2009 Indiana Electrical Code and replace it with the 2026 Indiana Electrical Code because the 2026 version will have incorporated the latest advancements in technology, addressing emerging electrical hazards, and maintaining compliance with the latest standards. If Indiana updates the Electrical Code to the 2026 version it will ultimately protect people and property from electrical accidents, ensuring the safety of residents and visitors across the state.

This proposed rule was drafted by an internal working group at the Indiana Department of Homeland Security (IDHS) and has taken into account comments and concerns received by interested stakeholders.

b. Scope of the Rule – The proposed rule is generally intended to implement the amendments that were submitted and approved by members of the Committee.

c. Statement of Need – The proposed rule is needed to ensure that residents and visitors stay safe with an updated electrical code that addresses potential hazards arising with new technological advancements and building practices.

d. Statutory Authority for the Proposed Rule – IC 22-13-2-2

e. Fees, Fines, and Civil Penalties – The proposed rule does not add or increase any fees, fines, or civil penalties.

II. Fiscal Impact Analysis

a. Anticipated Effective Date of the Rule – January 1, 2026.

b. Estimated Fiscal Impact on State and Local Government – In general, the proposed rule does not create a fiscal impact on state and local government.

c. Sources of Expenditures or Revenues Affected by the Rule – The proposed rule does not impact expenditures and revenues of State agencies or local governments.

III. Impacted Parties

The proposed rule impacts the safety and well-being of all individuals residing, visiting, or doing business in the Hoosier state.

IV. Changes in Proposed Rule

The following is a table identifying each of the substantive changes in the proposed rule.

New Requirements			
Section	**Electrical Code Book Section**	**Change**	**Reason**
675 IAC 17-1.9-3	90.2 – Use and Application	1. Expands the scope of the Code to include 'Class 1' and 'Class 2' structures and sets parameters to which Indiana Code is to be used.	1. This change was carried over from the 2009 Indiana Electrical Code.
		2. Expanding what electric utilities are added to the scope of the Indiana Electrical Code and expanding the installations installed in manufactured homes under the authority of the U.S. Department of Housing and Urban Development (HUD).	2. The addition is included to prevent the local Authority Having Jurisdiction (AHJ) from claiming jurisdiction. Battery Energy Storage Systems (BESS) installations must comply with NFPA 855 and follow the Fire Prevention and Building Safety Commissions' rules for chemical spill prevention and control and appropriate setbacks from surface water resources.
675 IAC 17-1.9-4	90.4 – Enforcement	Changed the text to make it more concise and for ease of comprehension.	The change is required to refer persons to the correct location to find the authorities having jurisdiction.
675 IAC 17-1.9-5	90.8 – Wiring Planning	Deleted section.	The Indiana Electrical Code does not legislate for the future and is also being

			brought forward from the 2009 Indiana Electrical Code.
675 IAC 17-1.9-6	Article 100 – Definitions	1. Modified definition of "approved" to be more concise.	
		2. Modified definition of "Authority Having Jurisdiction (AHJ)" to be more concise and compare it to "Code Official" in other codes.	2. The definitions in Indiana are different from the National Electrical Code due to the framework of Indiana state law.
		3. Adds a definition of "Battery, Utility Scale".	3. The definitions in Indiana are different from the National Electrical Code due to the framework of Indiana state law and provides clarity on meaning of the term.
		4. Modifies the definition of "Dwelling Unit" to add the word "eating" to make it more concise.	4. The definitions in Indiana are different from the National Electrical Code due to the framework of Indiana state law.
		5. Modified the definition of "Labeled" to be more concise and recognize "nationally recognized organizations".	5. The definitions in Indiana are different from the National Electrical Code due to the framework of Indiana state law.
		6. Modified the definition of "Listed" to be more concise.	6. The definitions in Indiana are different from the National Electrical Code due to the framework of Indiana state law.
		7. Modified the definition of "Pool" to be more concise and differentiate what qualifies as a pool.	7. The definitions in Indiana are different from the National Electrical Code due to the framework of Indiana state law.
		8. Modified the definition of "Special	8. The definitions in Indiana are different from the National Electrical Code due

		Permission" to align with the Indiana Code.	to the framework of Indiana state law.
675 IAC 17-1.9-7	110.15 – High-leg Marking	Adds an informational note to provide insight into what different electrical utilizes may require.	For conciseness and clarity.
675 IAC 17-1.9-8	110.26(A)(1)(b) – Depth of Working Space	Replaces "By special permission" with "When approved" to be more concise.	This change permits the local AHJ to approve an installation instead of requiring a variance from the Fire Prevention and Building Safety Commission.
675 IAC 17-1.9-9	210.8(A) – Dwelling Units	1. Modified line '(6) Kitchens' to clarify where receptacle outlets can be placed.	1. This change would minimize the cost impact to dwelling unit builders.
		2. Modified line '(11) Laundry areas' to clarify where receptacle outlets can be placed.	2. This change would minimize the cost impact to dwelling unit builders.
675 IAC 17-1.9-10	210.8(A)(5) – Dwelling Units	Modified line '(5) basements' to "(5) Unfinished basements".	Modified to align the finished/unfinished basement GFCI protection requirements with the 2020 Indiana Residential Code.
675 IAC 17-1.9-11	210.8(F) – Outdoor Outlets	Eliminates the last sentence of "Exception No. 2".	Removed the sentence related to the expiration date on Exception No. 2 to ensure potential compatibility issues with certain types of HVAC equipment have been addressed.
675 IAC 17-1.9-12	210.11(C) – Dwelling Units	1. Modified to eliminate current code section and replace with an updated code section.	1. This change is correcting an error in the first printing of this standard, as was submitted by the National Electrical Code Correlating Committee of the National Fire Protection Association.
		2. Modified to eliminate current code section and	2. This change is correcting an error in the first printing of this standard, as was submitted by the National

		replace with an updated code section.	Electrical Code Correlating Committee of the National Fire Protection Association.
675 IAC 17-1.9-13	210.12(E) – Branch Circuit Wiring Extensions, Modifications, or Replacements	Deleted section.	Deleting this section keeps the Indiana Electrical Code consistent with being an installation code and is also being brought forward from the 2020 Indiana Residential Code.
675 IAC 17-1.9-14	210.52(G)(1) – Garages	Modified the Exception to include "through a dedicated intersecting door" to the already existing language.	Receptable outlets in vehicle bays are wired to the building house panel and cannot be wired to an individual unit unless the vehicle bay is connected by an intersecting door.
675 IAC 17-1.9-15	210.52(I) – Foyers	Modifies measurements written in the section with updated measurements to provide clarification.	This change keeps in consideration that the size of the foyer should be large enough that it would be more likely than an electrical device would be continuously plugged into a receptacle outlets and is also being brought forward from the 2020 Indiana Residential Code.
675 IAC 17-1.9-16	215.18(A) – Surge-Protection Device	1. Deleted line '(1) Dwelling units'.	1. Surge protection to on feeders supplying a dwelling unit should be a business decision for the property owner.
		2. Modified to make line '(2) Dormitory units' to line '(1)'.	2. Renumbered for clarity and conciseness.
		3. Modified to make line '(3) Guest rooms and guest suits of hotels and motels' to line '(2)'.	3. Renumbered for clarity and conciseness.
		4. Modified to make line '(4) Area of nursing homes and limited-care facilities used	4. Renumbered for clarity and conciseness.

		exclusively as patient sleeping rooms' to line '(3)'.	
675 IAC 17-1.9-17	215.18(D) – Replacement	Deleted section.	Deleting this section keeps the Indiana Electrical Code consistent with being an installation code.
675 IAC 17-1.9-18	225.30(C) – Special Occupancies	Replaces "By special permission" with "When approved" to be more concise.	This change permits the local AHJ to approve an installation instead of requiring a variance from the Fire Prevention and Building Safety Commission.
675 IAC 17-1.9-19	225.41 – Emergency Disconnects	Deleted section.	One-and two-family dwelling units supplied by a Feeder(s) or Branch Circuit(s) already require a means for disconnecting. Requiring an additional emergency disconnect on the exterior is an unnecessary expense.
675 IAC 17-1.9-20	225.42(D) – Replacement	Deleted section.	Deleting this section keeps the Indiana Electrical Code consistent with being an installation code.
675 IAC 17-1.9-21	230.2 – Number of Services	1. Replaces "By special permission" with "When approved" to be more concise.	1. This change permits the local AHJ to approve an installation instead of requiring a variance from the Fire Prevention and Building Safety Commission.
		2. Replaces "By special permission" with "When approved" to be more concise.	2. This change permits the local AHJ to approve an installation instead of requiring a variance from the Fire Prevention and Building Safety Commission.
675 IAC 17-1.9-22	230.67(D) – Replacement	Deleted section.	Deleting this section keeps the Indiana Electrical Code consistent with being an installation code and this change was also approved by the 2020 National

			Electrical Review Committee.
675 IAC 17-1.9-23	230.85 – Emergency Disconnects	Deleted section.	Requiring an additional emergency disconnect on the home's exterior is an unnecessary expense.
675 IAC 17-1.9-24	250.24 – Grounded Conductor Brought to Service Equipment	Modified to eliminate current code section and replace with an updated code section.	This change is correcting an error in the first printing of this standard, as was submitted by the National Electrical Code Correlating Committee of the National Fire Protection Association.
675 IAC 17-1.9-25	250.52(A)(5)(2) – Rod and Pipe Electrodes	Modified section to add additional measurement sizes.	This change is added from the 2009 Indiana Electrical Code for enhanced clarification.
675 IAC 17-1.9-26	250.90 – Bonding-General	Modified section to add an exception.	Some AHJ's require the metal water piping to a faucet to be bonded to the grounding system where a nonmetallic water piping system is used. This is a misinterpretation and this exception will clarify that.
675 IAC 17-1.9-27	250.104(A)(1) – General	1. Modified section to add an exception.	1. Some AHJ's require the metal water piping to a faucet to be bonded to the grounding system where a nonmetallic water piping system is used. This is a misinterpretation and this exception will clarify that.
		2. Modified section to add an informational note.	2. Some AHJ's require the metal water piping to a faucet to be bonded to the grounding system where a nonmetallic water piping system is used. This is a misinterpretation and this informational note will clarify that.
675 IAC 17-1.9-28	250.110 – Equipment	Replaces "If exempted by special permission"	This change permits the local AHJ to approve an

	Fastened in Place (Fixed) or Connected by Permanent Wiring Methods	with “Where approved” to be more concise.	installation instead of requiring a variance from the Fire Prevention and Building Safety Commission.
675 IAC 17-1.9-29	250.114 – Equipment Connected by Cord and Plug	Replaces “exempted by special permission” with “where approved” to be more concise.	This change permits the local AHJ to approve an installation instead of requiring a variance from the Fire Prevention and Building Safety Commission.
675 IAC 17-1.9-30	250.122(D)(2) – Instantaneous-Trip Circuit Breaker and Motor Short-Circuit Protector	Modified to eliminate current code section and replace with an updated code section.	This change is correcting an error in the first printing of this standard, as was submitted by the National Electrical Code Correlating Committee of the National Fire Protection Association.
675 IAC 17-1.9-31	300.3 – Conductors	Added new section to account for new measurements.	This change was required in the 2009 Indiana Electrical Code and is also required in the 2020 Indiana Residential Code.
675 IAC 17-1.9-32	314.16(B)(2) – Clamp Fill	Modified section for clarification purposes.	Nonmetallic boxes have a style of clamp that should not be counted when calculating box fill; this would be an issues in large apartment projects.
675 IAC 17-1.9-33	372.20 – Size of Conductors	Replaced “by special permission” with “where approved” to be more concise.	This change permits the local AHJ to approve an installation instead of requiring a variance from the Fire Prevent and Building Safety Commission.
675 IAC 17-1.9-34	374.20 – Size of Conductors	Replaced ‘by special permission” with “where approved” to be more concise.	This change permits the local AHJ to approve an installation instead of requiring a variance from the Fire Prevention and Building Safety Commission.
675 IAC 17-1.9-35	394.10(1) – Uses Permitted	1. Deleted a portion of the section.	1. To provide clarity on the new amendment.

		2. Renumbered the section.	2. For clarity and conciseness.
		3. Added an informational note.	3. To provide clarity on the new amendment.
675 IAC 17-1.9-36	395.30(C)(3) – Insulators	Modified to eliminate current code section and replace with an updated code section.	This change is correcting an error that was discovered by the National Electrical Correlating Committee of the National Fire Protection Association.
675 IAC 14-1.9-37	422.5(A) – General	1. Adds a "(1)" before the already existing Informational Note.	1. For clarity and conciseness.
		2. Adds an additional Informational Note.	2. Modern technology can notify and occupant of a fault condition and past practice of deletion of GFCI protection results in an installation lacking adequate personnel protection.
675 IAC 17-1.9-38	430.22(E) – Other Than Continuous Duty	Modified section by deleting "the authority having jurisdiction grants special permission for" and replaces with "special permission is granted for" to be more concise.	This change permits the local AHJ to approve an installation instead of requiring a variance from the Fire Prevention and Building Safety Commission.
675 IAC 17-1.9-39	430.111(B)(3) – Oil Switch	Replaces "by special permission" with "when approved" to be more concise.	This change permits the local AHJ to approve an installation instead of requiring a variance from the Fire Prevention and Building Safety Commission.
675 IAC 17-1.9-40	500.8(E) – Threading	Adds an additional sentence at the end of the section for clarity.	Clarifies where non-tapered threads are not suitable and gives the local AHJ an easy reference if needed.
675 IAC 17-1.9-41	501.15(D) – Cable Seals, Class I, Division I	Modified to eliminate current code section and replace with an updated code section.	This change is correcting an error that was discovered by the National Electrical Correlating Committee of

			the National Fire Protection Association.
675 IAC 127-1.9-42	505.9(E) – Threading	Adds an additional sentence at the end of the section for clarity.	Clarifies where non-tapered threads are not suitable and gives the local AHJ an easy reference if needed.
675 IAC 17-1.9-43	513.7(F) – Mobile Stanchions	Modified for clarification purposes.	This change is correcting an error that was discovered by the National Electrical Correlating Committee of the National Fire Protection Association.
675 IAC 17-1.9-44	513.10(B) – Aircraft Battery Charging and Equipment	Modified to delete the third warning label as it is duplicated.	This change is correcting an error that was discovered by the National Electrical Correlating Committee of the National Fire Protection Association.
675 IAC 17-1.9-45	517.71(C) – Over 1,000-Volt Supply	Modified to eliminate current code section and replace with an updated code section.	This change is correcting an error that was discovered by the National Electrical Correlating Committee of the National Fire Protection Association.
675 IAC 17-1.9-46	550.18(B)(3) – Total Load for Determining Power Supply	Modified to eliminate current code section and replace with an updated code section.	This change is correcting an error that was discovered by the National Electrical Correlating Committee of the National Fire Protection Association.
675 IAC 17-1.9-47	600.1 – Scope	Modified the scope to be more concise.	This change was made because the Fire Prevention and Building Safety Commission has Class I and Class II buildings in its purview.
675 IAC 17-1.9-48	600.3 – Listing	Deletes “by special permission” to be more concise.	This change permits the local AHJ to approve an installation instead of requiring a variance from the Fire Prevention and Building Safety Commission.

675 IAC 17-1.9-49	680.26(A) – Performance	1. Modified section by adding an informational note.	1. Clarifying language to designers, installers, and inspectors of pools.
		2. Modified section by adding a second informational note.	2. Clarifying language to designers, installers, and inspectors of pools.
675 IAC 17-1.9-50	680.26(B)(2) – Conductive Pool Shells	1. Modified section by including three options for installers to meet the code requirements.;	1. Clarifying language to designers, installers, and inspectors of pools.
		2. Modified section by adding and informational note.	2. Clarifying language to designers, installers, and inspectors of pools.
		3. Updated section to include bonding with unencapsulated structural reinforcing steel.	3. Clarifying language to designers, installers, and inspectors of pools.
		4. Updated section to include perimeter surface bonding methods.	4. Clarifying language to designers, installers, and inspectors of pools.
		5. Updated section to include nonconductive perimeter surfaces.	5. Clarifying language to designers, installers, and inspectors of pools.
		6. Modified to add a new section regarding the interconnection of bonded portions of perimeter surfaces.	6. Clarifying language to designers, installers, and inspectors of pools.
675 IAC 17-1.9-51	695.4(B)(3) – Disconnecting Means	Modified the section to change “f” to Item “(4)” for clarification purposes.	This change is correcting an error that was discovered by the National Electrical Correlating Committee of the National Fire Protection Association.
675 IAC 17-1.9-52	701.12(I) – Battery-Equipped Emergency Luminaires, Used for Legally	Modified to eliminate current code section and replace with an updated code section.	This change is correcting an error that was discovered by the National Electrical Correlating Committee of the National Fire Protection Association.

	Required Standby Systems		
675 IAC 17-1.9-53	702.4(A)(2) – Automatic Load Connection	Modified to eliminate current code section and replace with an updated code section.	This change is correcting an error that was discovered by the National Electrical Correlating Committee of the National Fire Protection Association.
675 IAC 17—1.9-54	706.1(C) – Scope	1. Modified section for clarification purposes.	1. Utility Scale BESS is newly legislated by the state of Indiana.
		2. Modified to direct users where to go in the Indiana Code.	2. Utility Scale BESS is newly legislated by the state of Indiana.
675 IAC 17-1.9-55	Informative Annex C – Conduit, Tubing, and Cable Tray Fill Tables for Conductors and Fixture Wires of the Same Size	Modified section to eliminate current code section and replaces with an updated code section.	The Informative annex is not a part of the requirements of this standard, but is included for informational purposes only. This change is correcting an error in the first printing of this standard, as submitted by the National Electric Correlating Committee of the National Fire Protection Association.

V. Benefit Analysis

This rule update will help ensure that there is increased safety for people and property across the state of Indiana as new technologies will be incorporated. Along with increased safety, this rule update will bring improved energy efficiency, cost savings through optimized electrical systems, better compliance with industry standards, and adaptability to changing building practices, therefore contributing to a more sustainable building environment.

The standards set forth in this rule ensure that electrical installations continually meet safety requirements so that electrical systems perform as they are expected to while preventing any kind of harm to life or property. This revision of the code addresses many technological advancements, including wind, solar, energy storage, and electrical vehicles, this enabling safety regulation to support, rather than obstruct installations that accommodate these types of innovations.

VI. Cost Analysis

Below is a table of the 2023/2024 Indiana Electrical Code Update Committee cost impact breakdown.

2023 Indiana Electrical Code Update Committee Cost/Savings Impact Breakdown		
Article	**Section**	**Cost Impact**
Article 90	Entirety of the Section	No significant line items identified. The total cost to industries statewide would be minimal – under $10,000*.
Article 100	Entirety of the Section	No significant line items identified. The total cost to industries statewide would be minimal – under $10,000.
Article 200	210.8 (D)	GFCI Protection required for specific appliances operating 150 volts to ground and 60 amps or less. Cost impact for multi-family apartments would be: $4,095,000 (21,000 units @ $195/unit).
	210.8 (F)	Removal of the GFCI requirement for outdoor outlets operating 150 volts to ground and 50 amps or less. Cost Impact: -$2,100,000 (21,000 units @ $100/unit).
	210.12 (B)	AFCI protection for dwellings and multi-family apartments expanded to include kitchens and laundry areas. Cost Impact: $7,500,000 ($250/house, $125/apartment).
	210.52 (C)	Language changed for countertop and work surface receptacle outlet placement. Cost Impact:-$723,000 ($178,000/apartments and $545,000/houses).
	215.18	Surge protectors on feeders removed. Cost Impact: -$81,000.

	Table 220.42(A)	LED lighting allowed in more areas, which substantially reduces the unit load for lighting Cost Impact: -$20,000,000.00
	230.85	Homes have a service disconnect inside the house by the nearest point of entry of the service conductors. Requiring an additional emergency disconnect on the home's exterior is an unnecessary expense. Cost Impact: -12,000,000 (21,778 x $550) for class 2 structures (one-and two-family dwellings and townhouses).
	240.67	Requires arc energy reduction where fuses are rated 1200 amps or higher. Cost Impact: $675,000 ($7,500 per set of fuses, estimated 90 sets of fuses required).
	240.87	Requires arc energy reduction where circuit breakers are rated 1200 amps or higher. Cost Impact: $6,000,000 ($7,500 per breaker, 800 breakers).
Article 300	Entirety of the Section	No significant line items identified. The total cost to industries statewide would be minimal – under $10,000.
Article 400	404.2 (C)	Dimmer switches now require neutral. Cost Impact: $577,810 ($20/house)
	406.12	The use of tamper-resistant receptacles should be a decision by the property owner. A State mandate to use tamper-resistant receptacles may especially

		impede access to receptacles in dwellings, hotels/motels, dormitory units, agricultural buildings, and those used by the elderly and others with motor or sensory disabilities. Cost Impact: $360,000 ($1.00/receptacle x 25 outlets receptacles in a house or $25/unit x 14,425)
Article 500	590.4 (D)(2)	Requires receptacles installed in a wet location to be provided with an extra duty hood per 406.9(b)(1). Cost Impact: $20,000
Article 600	Entirety of the Section	No significant line items identified. The total cost to industries statewide would be minimal – under $10,000.
Article 700	700.8	Surge protection on emergency switchgear. Cost Impact: $500,000
	760.33	Supply side overvoltage protection. Cost Impact: $700,000
Article 800	Entirety of the Section	No significant line items identified. The total cost to industries statewide would be minimal – under $10,000.
Article 900	Entirety of the Section	No significant line items identified. The total cost to industries statewide would be minimal – under $10,000.

*Additional minimal costs and cost avoidances were identified – 'minimal' is defined as costing or avoiding less than $10,000 statewide – and mostly relate to choice of materials, processes, placement, etc.

The overall cost savings of the update to the Indiana Electrical Code would be $14,476,190.

VII. Sources of Information

No outside studies were relied upon to complete the cost-benefit analysis. All costs listed in this analysis were determined and agreed upon by the Indiana Electrical Code Update Committee.

VIII. Regulatory Analysis

Overall, the proposed rule is intended to ensure the safety of people and property by incorporating the latest advancements in electrical technology, innovations, and practices. Updating the Indiana Electrical Code will reflect these new safety concerns and innovations. Not updating the Indiana Electrical Code poses significant safety risks/hazards included but not limited to; an increased risk in fires due to outdated wiring practices, lack of protection for new technologies and innovations, an inability to address emerging electrical safety concerns, and potential liabilities for non-compliance with current standards ultimately putting people and property at risk due to outdated electrical installation.

In conclusion, the proposed rule is necessary to keep the lives and property of Indiana residents and visitors safe from electrical malfunctions due to outdated standards. The benefits that come from the proposed changes to the Indiana Electrical Code far outweigh any costs that arise from it.

IX. Contact Information of Staff to Answer Substantive Questions

Additional Information for OMB and SBA Review

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[Text to be added by the Register]
First Notice of Public Comment Period with Proposed Rule [link to document with proposed rule]
LSA Document #XX-XXX