AGENDA

UNIFORM BUILDING CODE COMMISSION
ELECTRICAL ADVISORY COMMITTEE

March 10, 2022 3:00

MEETING
This agenda is subject to change up to 24 hours prior to the meeting.

Join with Google Meet
meet.google.com/jrk-bhom-dmd

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(US) +1 617-675-4444 PIN: 520 999 418 3128#

1. Roll call
2. Approve the minutes from the December 9, 2021 meeting
3. Review of the electrical portion of the 2021 IRC
4. Review proposed amendments to 2021 IRC
   E3601.8
   E3606.5, E3606.5.1, E3606.5.2, E3606.5.3
   E3900
   E3902.1 through E3902.12
   E3902.3

Next Scheduled Meeting: as needed

Please call Sharon at 801-530-6163 or email ssmalley@utah.gov if you do not plan on attending this meeting.

In compliance with the Americans with Disabilities Act, individuals needing special accommodations (including auxiliary communicative aids and services) during this meeting should notify Dave Taylor, ADA Coordinator, at least three working days prior to the meeting. Division of Occupational and Professional Licensing, 160 East 300 South, Salt Lake City UT 84115, Phone 530-6628 or toll-free in Utah only 866-275-3675.

Determination to Hold Meeting Without an Anchor Location

Public Body:

UBCC Electrical Advisory Committee

Chair Name:

Joseph Taft, acting chair

Public Meeting date or date range:

March 10, 2022

The public meeting(s) scheduled for the date(s) above will be conducted electronically and without an anchor location. I have determined meeting with an anchor location presents a substantial risk to the health and safety of those who may be present at the anchor location.

This determination was based on the following facts/information:

The public monitoring and participation requirements in Utah Code Title 52, Ch. 4, Open and Public Meetings Act, would gather the participants and interested persons in this public meeting in a single, confined location, where the risks of further transmission of COVID-19 are greater. At the time that this meeting is being scheduled, Salt Lake County is currently in the "Moderate Level of Transmission" phase, according to the Utah COVID-19 Transmission Index.

MINUTES

UNIFORM BUILDING CODE COMMISSION
ELECTRICAL ADVISORY COMMITTEE

Meeting

December 9, 2021 3:00 pm

Convened: 3:01 pm Adjourned: 3:28 pm

STAFF
Stephen Duncombe, Bureau Manager
Sharon Smalley, Board Secretary

ELECTRICAL ADVISORY COMMITTEE MEMBERS

Jason VanAusdal	Art Anderson, Commission, Liaison (absent)
Joseph Taft	Rhett Butler
David Winger	Steve Woodman (excused)
Bryan Romney (absent)	Willie Chidester

VISITORS
David Smith, Eaton

MINUTES

A motion was made by Rhett Butler to approve the minutes from the October 14, 2021 meeting as written. The motion was seconded by Joseph Taft and passed unanimously.

FINAL REVIEW OF THE ELECTRICAL PORTION OF THE 2021 IRC

The committee reviewed their recommendations for the electrical portion of the 2021 IRC and the excel spreadsheet with comparisons from the 2015 to the 2018 and the 2018 to the 2021 IRC. The spreadsheet included the cost for changes. The majority of the changes in the codes were for clarification. Joseph Taft recommended that on the spread sheet for 2015 to 2018 the cost be changed to "$100 for initial tool". No further recommendations were made for changes or new amendments. A motion was made by Rhett Butler to approve the recommendations as modified in the spreadsheet. The motion was

seconded by David Winger and passed unanimously.

A motion was made by Rhett Butler to approve the recommendation for the amendments to the electrical portion of the IRC. The motion was seconded by Dave Winger and passed unanimously.

MAKE A RECOMMENDATION TO THE UBC COMMISSION FOR THE ELECTRICAL PORTION OF THE 2021 IRC

A motion was made by Rhett Butler to make a recommendation to the UBC Commission to approve the electrical portion of the 2021 IRC along the amendments as presented. The motion was seconded by David Winger and passed unanimously.

The meeting adjourned at 3:28.

Note: These minutes are not intended to be a verbatim transcript but are intended to record the significant features of the business conducted in this meeting. Discussed items are not necessarily shown in the chronological order they occurred.

2020 NEC Amendments to 2021 IRC

Currant 2020 NEC Amendment		Section Reads			
Section	**Amendment**	**2020 NEC**	**Corisponding 2015 IRC Section**	**Corisponding 2018 IRC Section**	**2021 IRC Amendment Proposed**
In NEC, Section 210.8(A)	the words "through 250-volt" are deleted.	**210.8 (A) Dwelling Units**. All 125-volt *through 250V-volt* receptacles installed in the locations specified in 210.8(A)(1) through (A) (11) and supplied by a single phase branch circuits rated 150 volts or less to ground shall have ground-fault circuit-interrupter protection for personnel.	**Section E3902.1 thru 11** details locations that require 125-volt, single-phase, 15- and 20-ampere receptacles required to be GFCI protected.	**Section E3902.1 thru 12** details locations were all 125-volt, through 250-volt receptacles supplied by a signle pahse branch ciruit rated 150 volts or less to ground are to be GFCI protected.	*None proposed by Electrical committee.*
In NEC, Section 210.8(A)(5),	the word "Basements" is deleted and replaced with "Unfinished portions or areas of the basement not intended as habitable rooms."	**210.8 (5) ~~Basements~~ Unfinished portions or areas of the basement not intended as habitable rooms.** Exception to (5): A receptacle supplying only a permanently installed fire alarm or burglar alarm system shall not be required to have ground-fault circuit-interrupter protection. Informational Note: See 760.41(B) and 760.121(B) for power supply requirements for fire alarm systems. Receptacles installed under the exception to 210.8(A)(5) shall not be considered as meeting the requirements of 210.52(G).	**E3902.5 Unfinished Basement Receptacles.** 125-volt, single-phase, 15- and 20-ampere receptacles installed in unfinished basements shall have ground-fault circuit-interrupter protection for personnel. For purposes of this section, unfinished basements are defined as portions or areas of the basement not intended as habitable rooms and limited to storage areas, work areas, and similar areas. [210.8(A)(5)] *Exception: A receptacle supplying only a permanently installed fire alarm or burglar alarm system.Receptacles installed in accordance with this exception shall not be considered as meeting the requirement of Section E3901.9. [210.8(A)(5) Exception]*	**E3902.5 Basement receptacles.** 125-volt, through 250-volt receptacles installed in basements and supplied by single-phase branch circuits rated 150 volts or less to ground shall have ground-fault circuit-interrupter protection for personnel. [210.8(A)(5)] *Exception: A receptacle supplying only a permanently installed fire alarm or burglar alarm system. A receptacle installed in accordance with this exception shall not be considered as meeting the requirement of Section E3901.9. Receptacles installed in accordance with this exception shall not be considered as meeting the requirement of Section E3901.9. [210.8(A)(5) Exception]*	*None proposed by Electrical committee.*
In NEC, Section 210.8(F)	is deleted.	**210.8 (F) Outdoor Outlets.** All outdoor outlets for dwellings, other than those covered in 210.8 (A) (3), Exeption to (3), that are supplied by single phase branch circuits rated 150 volts to ground or less, 50 amperes or less, shall have ground-fault circuit-interrupter protection for personnal. *Exception: Ground-fault circuit-interrupter protection shall not be required on lighting outlets other than those covered in 210.8 (C).*	**E3902.3 Outdoor receptacles.** 125-volt, single-phase, 15- and 20-ampere receptacles installed outdoors shall have ground-fault circuit-interrupter protection for personnel. [210.8(A)(3)] *Exception: Receptacles as covered in Section E4101.7. [210.8(A)(3) Exception]*	**E3902.3 Outdoor receptacles.** 125-volt, single-phase, 15- and 20-ampere through 250-volt receptacles installed outdoors and supplied by single-phase branch circuits rated 150 volts or less to ground shall have ground-fault circuit-interrupter protection for personnel. [210.8(A) (3)] *Exception: Receptacles as covered in Section E4101.7. [210.8(A)(3) Exception]*	*None proposed by Electrical committee.*
NEC, Section 210.65	is deleted.	**210.65 Meeting Rooms**	N/A	N/A	

2020 NEC Amendments to 2021 IRC

In NEC, Section 230.67	is deleted.	**230.67 Surge Protection** **(A) Surge Protective Device.** All services suppling dwelling units shall be provide with a surge perotective device(SPD). **(B) Location.** The SPD shal be an intergral part of the service equipmentor shall be located immediantly adjacent thereto. ***Exception:*** *The SPD shall not be required to be located in the service equipment as required by (B) if located at each next level distribution equipment downstream tpward the load.* **(C) Type.** The SPD shall be a Type 1 or Type 2 SPD. **(D) Replacement.** Where service equipment is replaced, all of the requirements of this section shall apply.	N/A	**E3606.5 Surge protection**. All services supplying one- and two-family dwelling units shall be provided with a surge-protective device (SPD) installed in accordance with Sections E3606.5.1 through E3606.5.3. **E3606.5.1 Location.** The SPD shall be an integral part of the service equipment or shall be located immediately adjacent thereto. ***Exception:*** *The SPD shall not be required to be located in the service equipment if located at each next-level distribution equipment downstream toward the load.* **E3606.5.2 Type.**The SPD shall be a Type 1 or Type 2 SPD. **E3606.5.3 Replacement.** Where service equipment is replaced, all of the requirements of this section shall apply. [230.67]	*None proposed by Electrical committee.*
In NEC, Section 314.27(C)	is deleted and replaced with the following: "**314.27(C) Boxes at Ceiling-Suspended (Paddle) Fan Outlets.** Outlet boxes or outlet box systems used as the sole support of a ceiling-suspended (paddle) fan shall be listed, shall be marked by their manufacturer as suitable for this purpose, and shall not support ceiling-suspended (paddle) fans that weigh more than 32 kg (70 lb). For outlet boxes or outlet box systems designed to support ceiling-suspended (paddle) fans that weigh more than 16 kg (35 lb), the required marking shall include the maximum weight to be supported."	**314-27 (C) Boxes at Ceiling-Suspended (Paddle) Fan Outlets.** Out-let boxes or outlet box systems used as the sole support of a ceiling-suspended (paddle) fan shall be listed, shall be marked by their manufacturer as suitable for this purpose, and shall not support ceiling-suspended (paddle) fans that weigh more than 32 kg (70 lb). For outlet boxes or outlet box systems designed to support ceiling-suspended (paddle) fans that weigh more than 16 kg (35 lb), the required marking shall include the maximum weight to be supported. Outlet boxes mounted in the ceiling of habitable rooms of dwelling occupancies in a location acceptable for the installation of a ceiling-suspended (paddle) fan shall comply with one of the following: (1) Listed for the sole support of ceiling-suspended (paddle) fans (2) An outlet box complying with the applicable requirements of 314.27 and providing access to the structural framing capable of susportting of a ceiling-suspended (paddle) fan brachet or equivalent.	**E3905.8 Boxes at fan outlets.** Outlet boxes and outlet box systems used as the sole support of ceiling-suspended fans (paddle) shall be marked by their manufacturer as suitable for this purpose and shall not support ceiling-suspended fans (paddle) that weigh more than 70 pounds (31.8 kg). For outlet boxes and outlet box systems designed to support ceiling-suspended fans (paddle) that weigh more than 35 pounds (15.9 kg), the required marking shall include the maximum weight to be supported. Where spare, separately switched, ungrounded conductors are provided to a ceiling-mounted outlet box and such box is in a location acceptable for a ceiling-suspended (paddle) fan, the outlet box or outlet box system shall be listed for sole support of a ceiling-suspended (paddle) fan. [314.27(C)]	**E3905.8 Boxes at fan outlets.** Outlet boxes and outlet box systems used as the sole support of ceiling-suspended fans (paddle) shall be marked by their manufacturer as suitable for this purpose and shall not support ceiling-suspended fans (paddle) that weigh more than 70 pounds (31.8 kg). For outlet boxes and outlet box systems designed to support ceiling-suspended fans (paddle) that weigh more than 35 pounds (15.9 kg), the required marking shall include the maximum weight to be supported. Outlet boxes mounted in the ceilings of habitable rooms in a location acceptable for the installation of a ceiling-suspended (paddle) fan shall comply with one of the following: [314.27(C)] 1. Listed for sole support of ceiling-suspended (paddle) fans. 2. An outlet box complying with the applicable requirements of Section E3905.6 and providing access to structural framing capable of supporting of a ceiling-suspended (paddle) fan bracket or equipment. [314.27(C)]	*None proposed by Electrical committee.* *There is no current amendment to the 2015 IRC Section 3905.8. This is due to the first portion of the section being used to create the 2020 NEC amendment.*

2020 NEC Amendments to 2021 IRC

In NEC, Section 406.9(C)	is deleted and replaced with the following: "406.9(C) Bathtub and Shower Space. Receptacles shall not be installed within or directly over a bathtub or shower stall."	**406.9 Receptacles in Damp or Wet Locations.** **(C) Bathtub and Shower Space.** Receptacles shall not be installed a zone measured 900 mm (3 ft) horizontally and 2.5 m (8 ft) vertically from the top of the bathtub rim or shower stall threshold. The identified zone is all-encompassing and shall include the space above the tub or shower stall. Exception: in bathrooms with less than the required zone the receptacle(s) shall be permitted to be installed opposite the bathtub rim or shower stall threshold on the farthest wall within the room.	**E4002.11 Bathtub and shower space.** A receptacle shall not be installed within or directly over a bathtub or shower stall. [406.9(C)]	**E4002.11 Bathtub and shower space.** Receptacles shall not be installed within a zone measured 3 feet (90 mm) horizontally and 8 feet (2438 mm) vertically from the top of the bathtub rim or shower stall threshold. The identified zone is all-encompassing and shall include the space directly over the tub or shower stall. ***Exception:*** *In bathrooms with less than the required zone, the receptacle(s) shall be permitted to be installed opposite the bathtub rim or shower stall threshold on the farthest wall in the room. [406.9(C)]*	*None proposed by Electrical committee.*

Currant 2015 IRC Amendments		Currant 2015 IRC Wording	Currant 2021 IRC Wording	2021 IRC Amendment Proposed
In IRC, Section E3601.6.2	a new exception is added as follows: "Exception: An occupant of an accessory dwelling unit is not required to have access to the disconnect serving the dwelling unit in which they reside."	**E3601.6.2 Service disconnect location.** The service disconnecting means shall be installed at a readily accessible location either outside of a building or inside nearest the point of entrance of the service conductors. Service disconnecting means shall not be installed in bathrooms. Each occupant shall have access to the disconnect serving the dwelling unit in which they reside. [230.70(A)(1), 230.72(C)] *Exception: An occupant of an accessory dwelling unit is not required to have access to the disconnect serving the dwelling unit in which they reside.*	**E3601.6.2 Service disconnect location.** The service disconnecting means shall be installed at a readily accessible location either outside of a building or inside nearest the point of entrance of the service conductors. Service disconnecting means shall not be installed in bathrooms. Each occupant shall have access to the disconnect serving the dwelling unit in which they reside. [230.70(A)(1)(2), 230.72(C)]	*None proposed by Electrical committee.*
In IRC, Section E3705.4.5	the following words are added after the word "assemblies": "with ungrounded conductors 10 AWG and smaller"	**E3705.4.5 Conductors of Type SE cable.** Where used as a branch circuit or feeder wiring method within the interior of a building and installed in thermal insulation, the ampacity of the conductors in Type SE cable assemblies with ungrounded conductors 10 AWG and smaller shall be in accordance with the 60°C (140°F) conductor temperature rating. The maximum conductor temperature rating shall be permitted to be used for ampacity adjustment and correction purposes, provided that the final derated ampacity does not exceed that for a 60°C (140°F) rated conductor. [338.10(B)(4)(a)]	**E3705.4.5 Conductors of Type SE cable.** Where used as a branch circuit or feeder wiring method within the interior of a building and installed in thermal insulation, the ampacity of the conductors in Type SE cable assemblies with ungrounded conductor sizes 10 AWG and smaller shall be in accordance with the 60°C (140°F) conductor temperature rating. The maximum conductor temperature rating shall be permitted to be used for ampacity adjustment and correction purposes, provided that the final derated ampacity does not exceed that for a 60°C (140°F) rated conductor. [338.10(B)(4)(a)]	**No Amendment needed.** Wording has been changed to match what our amendment provided.

2020 NEC Amendments to 2021 IRC

In IRC, Section E3901.4.5	the last sentence in the exception is deleted and replaced with the following: "Receptacles mounted below the countertop in accordance with this exception shall not be located more than 14 inches from the bottom leading edge of the countertop."	**E3901.4.5 Receptacle outlet location.** Receptacle outlets shall be located not more than 20 inches (508 mm) above the countertop. Receptacle outlet assemblies installed in countertops shall be listed for the application. Receptacle outlets shall not be installed in a face-up position in the work surfaces or countertops. Receptacle outlets rendered not readily accessible by appliances fastened in place, appliance garages, sinks or rangetops as addressed in the exception to Section E3901.4.1, or appliances occupying dedicated space shall not be considered as these required outlets. [210.52(C)(5)] **Exception:** Receptacle outlets shall be permitted to be mounted not more than 12 inches (305 mm) below the countertop in construction designed for the physically impaired and for island and peninsular countertops where the countertop is flat across its entire surface and there are no means to mount a receptacle within 20 inches (508 mm) above the countertop, such as in an overhead cabinet. ~~Receptacles mounted below the countertop in accordance with this exception shall not be located where the countertop extends more than 6 inches (152 mm) beyond its support base.~~ Receptacles mounted below the countertop in accordance with this exception shall not be located more than 14 inches from the bottom leading edge of the	E3901.4.3 **Receptacle outlet location.** Receptacle outlets rendered not readily accessible by appliances fastened in place, appliance garages, sinks, or rangetops as covered in the exception to Section E3901.4.1, or appliances occupying assigned spaces shall not be considered as these required outlets. Required receptacle outlets shall be located in one or more of the following: 1. On or above, but not more than 20 inches (508 mm) above, the countertop or work surface. 2. Receptacle outlet assemblies listed for the use in countertops or work surfaces shall be permitted to be installed in countertops or work surfaces. 3 Not more than 12 inches (305 mm) below the countertop or work surface. Receptacles installed below a countertop or work surface shall not be located where the countertop or work surface extends more than 6 inches (152 mm) beyond its support base. [210.52(C)(3)]	*None proposed by Electrical committee.*
In IRC, Section E3901.9	the following exception is added: "**Exception:** Receptacles or other outlets adjacent to the exterior walls of the garage, outlets adjacent to an exterior wall of the garage, or outlets in a storage room with entry from the garage may be connected to the garage branch circuit."	**E3901.9 Basements, garages and accessory buildings.** Not less than one receptacle outlet, in addition to any provided for specific equipment, shall be installed in each separate unfinished portion of a basement, in each attached garage, and in each detached garage or accessory building that is provided with electrical power. The branch circuit supplying the receptacle(s) in a garage shall not supply outlets outside of the garage and not less than one receptacle outlet shall be installed for each motor vehicle space. [210.52(G)(1), (2), and (3)] ***Exception:*** *Receptacles or other outlets adjacent to the exterior walls of the garage, outlets adjacent to an exterior wall of the garage, or outlets in a storage room with entry from the garage may be connected to the garage branch circuit.*	**E3901.9 Basements, garages and accessory buildings.** Not less than one receptacle outlet, in addition to any provided for specific equipment, shall be installed in each separate unfinished portion of a basement; in each vehicle bay not more than 5.5 feet (1676 mm) above the floor in attached garages; in each vehicle bay not more than 5.5 feet (1676 mm) above the floor in detached garages that are provided with electric power and in accessory buildings that are provided with electric power. [210.52(G)(1), (2), and (3)]	

2020 NEC Amendments to 2021 IRC

IRC, Section E3902.16	is deleted.	**E3902.16 Arc-fault circuit-interrupter protection.** Branch circuits that supply 120-volt, single-phase, 15- and 20-ampere outlets installed in kitchens, family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreations rooms, closets, hallways, laundry areas and similar rooms or areas shall be protected by any of the following: [210.12(A)]	**E3902.17 Arc-fault circuit-interrupter protection.** Branch circuits that supply 120-volt, single-phase, 15- and 20-ampere outlets installed in kitchens, family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreations rooms, closets, hallways, laundry areas and similar rooms or areas shall be protected by any of the following: [210.12(A)]	*None proposed by Electrical committee.*
In Section E3902.17:	(a) following the word "Exception" the number "1." is added; and (b) at the end of the section, the following sentences are added: "2. This section does not apply for a simple move or an extension of a branch circuit or an outlet which does not significantly increase the existing electrical load. This exception does not include changes involving remodeling or additions to a residence	**E3902.17 Arc-fault circuit interrupter protection for branch circuit extensions or modifications.** Where branch-circuit wiring is modified, replaced, or extended in any of the areas specified in Section E3902.16, the branch circuit shall be protected by one of the following: 1. A combination-type AFCI located at the origin of the branch circuit. 2. An outlet branch-circuit type AFCI located at the first receptacle outlet of the existing branch circuit. [210.12(B)] **Exceptions:** 1. AFCI protection shall not be required where the extension of the existing conductors is not more than 6 feet (1.8 m) in length and does not include any additional outlets or devices. [210.12(B) Exception] 2. This section does not apply for a simple move or an extension of a branch circuit or an outlet which does not significantly increase the existing electrical load. This exception does not include changes involving	E3902.18 **Arc-fault circuit-interrupter protection for branch circuit extensions or modifications.** Where branch-circuit wiring is modified, replaced, or extended in any of the areas specified in Section E3902.17, the branch circuit shall be protected by one of the following: 1. A combination-type AFCI located at the origin of the branch circuit. 2. An outlet branch-circuit type AFCI located at the first receptacle outlet of the existing branch circuit. [210.12(B)] **Exception:** AFCI protection shall not be required where the extension of the existing branch circuit conductors is not more than 6 feet (1.8 m) in length and does not include any additional outlets or devices other than splicing devices. This measurement shall not include the conductors inside an enclosure, cabinet, or junction box. [210.12(B) Exception]	*None proposed by Electrical committee.*
IRC, Chapter 44	is amended by adding the following reference standard:			
"Standard reference number	Title	Referenced in code section number		

2020 NEC Amendments to 2021 IRC

USC-FCCCHR 10th Edition Manual of Cross Connection Control	Foundation for Cross-Connection Control and Hydraulic Research University of Southern California Kaprielian Hall 300 Los Angeles CA 90089-2531	Table P2902.3"	
In IRC, Chapter 44	is amended by adding the following reference standard: "UL 9540-20: Energy Storage Systems and Equipment; R327.1, R327.2 and R327.6."		
(9) ?	(a) When passive radon controls or portions thereof are voluntarily installed, the voluntary installation shall comply with Appendix F of the IRC.		
	(b) An additional inspection of a voluntary installation described in Subsection (9)(a) is not required.		

UTAH DEPARTMENT OF COMMERCE
DIVISION OF OCCUPATIONAL AND PROFESSIONAL LICENSING
160 East 300 South Salt Lake City UT 84111
PO Box 146741 Salt Lake City UT 84114-6741
E-mail: b8@utah.gov
Web: www.dopl.utah.gov

REQUEST FOR CODE AMENDMENT

Requesting Agency/Person: Home Builders Association of Utah	Date:02/10/2022
Street Address:38 W 13775 S suite 120	
City, State, Zip Draper Utah 84020	
Contact Person: Ross Ford	Phone:801-352-8266
Code to be Amended: 2021 IRC (Include edition)	
Section: E3601.8	
Section Emergency Disconnects	

AMENDMENT:
Strike E3601.8

Purpose of or Reason for the amendment: The intent of this change is to allow firefighters to quickly shut off power from the electrical service before entering a house to fight a fire. In Utah this is already common practice. This requirement is not necessary. It is also important to note that activating the disconnect will not shut off all power in every case. Some systems, such as photovoltaic and backup generators, will still provide power even after power from the electrical utility is disconnected.
Cost or Savings Impact of Amendment: This would have a cost savings of $86 per home
Compliance Costs for Affected Persons (APerson@ means any individual, partnership, corporation, association, governmental entity, or public or private organization of any character other than an agency.) (You must break out the impact cost to State Budget, Local Government and you must state aggregate cost to other persons {cost per person times number of persons affected}): This amendment will have no cost impact for compliance

Signature:	Date:

For Division Use:

Date Received:	
Committee Action: Approved Δ Denied Approved with revisions Referred to: Tabled	**UBC Commission Decision for Hearing:** Approved for hearing Δ Denied Approved with revisions Referred to: Tabled
Date Filed:	Public Hearing Date:
UBC Commission Decision for Adoption: Approved Δ Denied Approved with revisions Referred to: Tabled	Effective Date:

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REQUEST FOR CODE AMENDMENT

Requesting Agency/Person: Home Builders Association of Utah	Date:02/10/2022
Street Address:38 W 13775 S suite 120	
City, State, Zip Draper Utah 84020	
Contact Person: Ross Ford	Phone:801-352-8266
Code to be Amended: 2021 IRC (Include edition)	
Section: E3606.5, E3606.5.1,E3606.5.2,E3606.5.3	
Section Serge protection	

AMENDMENT:
Strike E3606.5, E3606.5.1, E3606.5.2, E3606.5.3

Purpose of or Reason for the amendment: The code-making panel did not provide adequate substantiation to clearly identify a risk to equipment or safety concern to warrant this new requirement. Surge protection is currently permitted by the code and can provide a value to the end user, but it should remain up to the consumer as to whether the benefit is worth the investment. There are also potential issues with mandating currently available surge-protection products in all cases. The new language does not specify which conductors are to be protected or what the minimum short circuit current rating, the minimum nominal discharge current rating or the voltage protection rating should be. Market pressures will dictate that the lowest level of protection is installed in most cases, severely limiting the effectiveness of the devices. There is also no guarantee that the devices remain in service, further negating any possible advantages of this new mandate. During the code development process, the code making panel rejected several public comments to expand the surge-protection requirement to all occupancies and multiple levels of protection because they lacked substantiation. Yet the committee did not provide technical data in their statement showing a problem existed that required this change.
Cost or Savings Impact of Amendment: This would have a cost savings of $246 per home
Compliance Costs for Affected Persons (APerson@ means any individual, partnership, corporation, association, governmental entity, or public or private organization of any character other than an agency.) (You must break out the impact cost to State Budget, Local Government and you must state aggregate cost to other persons {cost per person times number of persons affected}): This amendment will have no cost impact for compliance

Signature:	Date:

For Division Use:

Date Received:	
Committee Action: Approved Δ Denied Approved with revisions Referred to: Tabled	**UBC Commission Decision for Hearing:** Approved for hearing Δ Denied Approved with revisions Referred to: Tabled
Date Filed:	Public Hearing Date:
UBC Commission Decision for Adoption: Approved Δ Denied Approved with revisions Referred to:	Effective Date:

Tabled	

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REQUEST FOR CODE AMENDMENT

Requesting Agency/Person: Home Builders Association of Utah	Date:02/10/2022
Street Address:38 W 13775 S suite 120	
City, State, Zip Draper Utah 84020	
Contact Person: Ross Ford	Phone:801-352-8266
Code to be Amended: 2021 IRC (Include edition)	
Section: E3900	
Section Title: Ground Fault and Arc Fault Circurit interuptions	

AMENDMENT:

15A-3-206 Amendments to Chapters 37,39, and 44 and appendix F of IRC

15A-3-206(3) In IRC, section ~~E3901.4.5~~ E3901.4.3
15A-3-206(5) In IRC, section ~~E3902.16~~ E3902.17
15A-3-206(6) In section ~~E3902.17~~ E3902.18

Purpose of or Reason for the amendment: The 2021 IRC numbers are different from the 2015. This changes the numbering to match the title.
Cost or Savings Impact of Amendment: No change in cost. Just renumbering existing amendments
Compliance Costs for Affected Persons (APerson@ means any individual, partnership, corporation, association, governmental entity, or public or private organization of any character other than an agency.) (You must break out the impact cost to State Budget, Local Government and you must state aggregate cost to other persons {cost per person times number of persons affected}): This amendment will have no cost impact for compliance

Signature:	Date:

For Division Use:

Date Received:	
Committee Action: Approved 3-10-22 Δ Denied Approved with revisions Referred to: Tabled	**UBC Commission Decision for Hearing:** Approved for hearing Δ Denied Approved with revisions Referred to: Tabled
Date Filed:	Public Hearing Date:
UBC Commission Decision for Adoption: Approved Δ Denied Approved with revisions Referred to: Tabled	Effective Date:

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REQUEST FOR CODE AMENDMENT

Requesting Agency/Person: Home Builders Association of Utah	Date:2/09/2022
Street Address:38 W 13775 S suite 120	
City, State, Zip Draper Utah 84020	
Contact Person: Ross Ford	Phone:801-352-8266
Code to be Amended: 2021 IRC (Include edition)	
Section: E3902.1 through E3902.12	
Section Title: Ground-Fault and Arc Fault circuit interrupter protection	

AMENDMENT:

E3902.1 Bathroom Receptacles. 125-volt single phase 15 and 20 ampere ~~Through 250 volt~~ receptacles installed in bathrooms and supplied by single phase branch circuits rated 150 volts or less to ground shall have ground fault circuit interrupter protection for personnel.

(Make the same changes to the first sentence of E3902.2, E3902.4, E3902.5, E3902.6, E3902.7, E3902.8, E3902.9, E3902.10, E3902.11, E3902.12,)

Purpose of or Reason for the amendment:

The unfortunate event used as the sole substantiation for the change involved an older stove with both an appliance manufacturing error as well as an installation error. This change goes beyond requiring belt and suspenders safety provisions. Those were already in place, and it took both to fail for the incident to occur.

The proposed requirement of GFCI protection for all 250-volt receptacles is too broad and not supported by the committee's substantiation. According to the NFPA article used to support the change, the appliance in question was "an older installation, one predating today's requirement to install an equipment grounding conductor in the branch circuit to the range". It sounds like the tragedy was only possible with older wiring. This is another example that shows new construction and updated electrical systems do not constitute the same dangers as those in older homes.

The committee contends that 250-volt receptacles present similar hazards as 125-volt convenience receptacles and this is not true. 250-volt receptacles are installed behind the range or dryer without being readily accessible to the consumer. 250-volt appliances are plugged in and left for the operation of the appliance, but 125-volt receptacles are generally accessible to the consumer. If the consumer chose to, they could use a convenience receptacle for extension cords or other appliance use, whereas a 250-volt receptacle is specific to that appliance.

Cost or Savings Impact of Amendment:

This amendment will reduce costs by around $300 per home.

Compliance Costs for Affected Persons (APerson@ means any individual, partnership, corporation, association, governmental entity, or public or private organization of any character other than an agency.) (You must break out the impact cost to State Budget, Local Government and you must state aggregate cost to other persons {cost per person times number of persons affected}):

This amendment will have no cost impact for compliance

Signature:	Date:

For Division Use:

Date Received:

Committee Action:	**UBC Commission Decision for Hearing:**
Approved Δ Denied	Approved for hearing Δ Denied
Approved with revisions	Approved with revisions

Referred to: Tabled	Referred to: Tabled
Date Filed:	Public Hearing Date:
UBC Commission Decision for Adoption: Approved Δ Denied Approved with revisions Referred to: Tabled	Effective Date:

UTAH DEPARTMENT OF COMMERCE
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REQUEST FOR CODE AMENDMENT

Requesting Agency/Person: Home Builders Association of Utah	Date:2/09/2022
Street Address:38 W 13775 S suite 120	
City, State, Zip Draper Utah 84020	
Contact Person: Ross Ford	Phone:801-352-8266
Code to be Amended: 2021 IRC (Include edition)	
Section: E3902.3	
Section Title: Ground-Fault and Arc Fault circuit interrupter protection	

AMENDMENT:

E3902.3 Outdoor Receptacles. 125-volt single phase 15 and 20 ampere ~~Through 250-volt~~ receptacles installed outdoors and supplied by single phase branch circuits rated 150 volts or less to ground shall have ground fault circuit interrupter protection for personnel.

Purpose of or Reason for the amendment:

GFCIs are shown to be effective where a corded product is plugged into a standard "convenience" receptacle in a wet or damp location. However, this requirement is for condenser units, which are hardwired. Data was not provided to supports expanding the use of GFCI protection on these circuits. The event used as substantiation was a result of an unqualified individual performing an electrical installation they never should have attempted. The NEC should not mandate GFCI protection for all outdoor outlets based on very specific unfortunate circumstances. This requirement is extremely broad and will result in many unintended consequences. For example, it has not been determined if all A/C condenser units will operate on a GFCI protected circuit as sufficient testing has not been conducted. If the condenser unit is affected by high humidity and trips the GFCI, it could result in unhealthy conditions and property damage inside the home due to heat, humidity and mold growth, especially where the home is unoccupied for an extended period. There is also the potential for unwanted tripping and compatibility issues with heat pumps. Branch circuit extensions or modifications would require the addition of GFCI protection for old condenser units, and it is not known whether the existing equipment is compatible with GFCI This requirement also applies to hardwired connections for effluent pumps and other types of lift station pumps with outdoor connections.

Cost or Savings Impact of Amendment:

This amendment will reduce costs by around $136 per home.

Compliance Costs for Affected Persons (APerson@ means any individual, partnership, corporation, association, governmental entity, or public or private organization of any character other than an agency.) (You must break out the impact cost to State Budget, Local Government and you must state aggregate cost to other persons {cost per person times number of persons affected}):

This amendment will have no cost impact for compliance

Signature:	Date:

For Division Use:

Date Received:	
Committee Action: Approved Δ Denied Approved with revisions Referred to: Tabled	**UBC Commission Decision for Hearing:** Approved for hearing Δ Denied Approved with revisions Referred to: Tabled
Date Filed:	Public Hearing Date:
UBC Commission Decision for Adoption:	

Approved Δ Denied Approved with revisions Referred to: Tabled	Effective Date: