

# ENERGY CODE CONSENSUS COMMITTEES

(Commercial and Residential)

New Standards proposed in the  
2021 IECC Public Input Process  
Listed by Standards Organization  
**STAFF ANALYSES**

December 2, 2021

The following are comments by ICC staff regarding certain aspects of standards proposed to be referenced in the IECC by public input proposals submitted for the 2021 IECC Public Input Process. The comments relate to portions of the criteria for standards contained in Section 3.6 of CP#28 (see last page of this document).

CODE CHANGE NUMBER	CODE SECTION(S)	STANDARD	STAFF COMMENTS
<b>ACCA STANDARDS</b>			
IRCEPI-4-21	R403.3.6 (N1103.3.6)	<b>ACCA 5QI—2010</b> <i>HVAC Quality Installation Specification, Residential and Commercial Heating, Ventilating, and Air Conditioning (HVAC) Applications</i>	The standard appears to be written in enforceable language. It does not appear to require proprietary materials or agencies. Promulgation is by a consensus process stated in preface.
<b>ACI STANDARDS</b>			
CEPI-30-21	IECC CE: C402.1, C402.1.6	<b>ACI Code 122.1—2021</b> <i>Thermal Bridge Mitigation for Buildings Having Concrete and Masonry Walls and Masonry Veneer—Code Requirements</i>	Does not indicate promulgation by a consensus process. Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies.
<b>AERC STANDARDS</b>			
CEPI-196-21	IECC CE: C406.1, C405.13(NEW)	<b>AERC 100—2017</b> <i>Standard for Rating the Energy Performance of Fenestration Attachments</i>	The standard does not appear to be written in enforceable language as it appears to lack enforceable provisions. The technical aspects of the standard are only by reference in (2) Program Documents. The remainder of the standard governs the eligibility and responsibilities of the applicants and the responsibilities and powers of the promulgator. Since the standard does not contain technical requirements, it is not possible to ascertain whether or not it requires proprietary materials or agencies. The standard does not indicate promulgation by a consensus process.
<b>AHRI STANDARDS</b>			
CEPI-119-21	IECC CE: C403.8.1.2	<b>AHRI 430—2020</b> <i>Performance Rating of Central Station Air-handling Unit Supply Fans</i>	Appears written in mandatory language. Does not appear to require proprietary materials. Promulgation by a consensus process stated in the scope.
CEPI-119-21	IECC CE: C403.8.12	<b>AHRI 440—2008</b> <i>Performance Rating of Room Fan Coils-with Addendum 1</i>	Currently referenced as 440-2008 in the IECC-CE.
CEPI-119-21	IECC CE: Table C403.8.1(1)	<b>AHRI 1060—2018</b> <i>Performance Rating of Air-to-Air Exchangers for Energy Recovery Ventilation Equipment</i>	Appears written in mandatory language. Does not appear to require proprietary materials. Promulgation by a consensus process stated in the scope.
REPI-71-21	IECC RE: R403.1.1.1 (New), R407.2	<b>AHRI 1380—2019</b> <i>Demand Response through Variable Capacity HVAC Systems in Residential and Small Applications</i>	Appears written in mandatory language. Does not appear to require proprietary materials. Promulgation by a consensus process stated in the scope.
<b>ANSI STANDARDS</b>			

CODE CHANGE NUMBER	CODE SECTION(S)	STANDARD	STAFF COMMENTS
CEPI-43-21 REPI-40-21 IRCEPI-1-21	IECC CE: C402.1.4.2, Table C402.1.4.2 IECC RE: R402.2.6, Table R402.2.6 IRC: N1102.2.6, Table N1102.2.6	<b>ANSI S250—21</b> <i>North American Standard for Thermal Transmittance of Building Envelopes with Cold-Formed Steel Framing</i>	Appears written in mandatory language. Does not appear to require proprietary materials. Promulgation by a consensus process stated in the scope.
<b>AMCA STANDARDS</b>			
CEPI-122-21 CEPI-121-21 REPI-95-21	IECC CE: C403.8.5, Table C403.8.5 IECC RE: R403.6.2, Table R403.6.2	<b>ANSI/ASHRAE Standard 51—16 (AMCA 210- 51—16)</b> <i>Laboratory Methods of Testing Fans for Certified Aerodynamic Performance Rating</i>	Currently referenced in the IMC and the IRC.
CEPI-72-21	IECC CE: C402.5.9, C403.4.1.4	<b>AMCA 220—21</b> <i>Laboratory Methods of Testing Air Curtain Units for Aerodynamic Performance Rating</i>	Currently referenced in the IECC-CE.
CEPI-124-21	IECC CE: C403.9	<b>AMCA 230—15 with errata</b> <i>Laboratory Methods of Testing Air Circulating Fans for Rating and Certification</i>	Currently referenced in the IMC and IECC-CE.
<b>ANSI STANDARDS</b>			
REPI-74-21	IECC RE: R403.1.3	<b>ANSI Z21.20—2005 (R2016)</b> <i>Automatic Gas Ignition Systems and Components</i>	Appears written in mandatory language. Does not appear to require proprietary materials. Promulgation by a consensus process stated in the scope.
REPI-65-21	IECC RE: R402.4.2.1	<b>ANSI Z21-50-2016/CSA 2.22—16</b> <i>Vented Decorative Gas Appliances</i>	Currently referenced in the IRC and the IFGC.
REPI-65-21 #82	IECC RE: R402.4.2.1	<b>ANSI Z21.88-2017/CSA 2.23—17</b> <i>Vented Gas Fireplace Heaters</i>	Currently referenced in the IRC and the IFGC.
<b>ASHRAE STANDARDS</b>			
CEPI-122-21 CEPI-121-21 REPI-95-21	IECC CE: C403.8.5, Table C403.8.5 IECC RE: R403.6.2, Table R403.6.2	<b>ANSI/ASHRAE Standard 51—16 (AMCA 210- 51—16)</b> <i>Laboratory Methods of Testing Fans for Certified Aerodynamic Performance Rating</i>	Currently referenced in the IMC and IRC.
CEPI-101-21 CEPI-107-21	IECC CE: C403.4.3; C403.6.1	<b>ASHRAE 62.1—19</b> <i>Ventilation for Acceptable Indoor Air Quality</i>	Currently referenced in the IEBC, IMC and ISPSC.
CEPI-145-21 CEPI-83-21 CEPI-57-21	IECC CE: C403.15 C402.5, C402.5.1.2, C402.5.2, C402.5.3, C402.5.3.1, C402.5.3.2, C402.5.3, C406.1, Table C406.1(1), Table C406.1(2), Table C406.1(3), Table C406.1(4), Table C406.1(5), C406.9	<b>ANSI/ASHRAE/IES Standard 90.1—2019</b> <i>Energy Standard for Buildings Except Low-Rise Residential Buildings</i>	Currently referenced in the IMC and IECC-CE.
REPI-157-21	IECC RE: RC102, RC102.2	<b>ASHRAE 90.2—18</b> <i>Energy-Efficient Design of Low-Rise Residential Buildings</i>	Appears written in mandatory language. Does not appear to require proprietary materials. Promulgation by a consensus process stated in the scope.

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CEPI-75-21	IECC CE: C403.1.2, Table C403.1.2(1), Table C403.1.2(2)	<b>ASHRAE 90.4—2019</b> <i>Energy Standard for Data Centers</i>	Appears written in mandatory language. Does not appear to require proprietary materials. Promulgation by a consensus process stated in the scope.
CEPI-216-21	IECC CE: C501.2	<b>ASHRAE 100—2018</b> <i>Energy Efficiency in Existing Buildings</i>	Appears written in mandatory language. Does not appear to require proprietary materials. Promulgation by a consensus process stated in the scope.
REPI-121-21	IECC RE: R405.2	<b>ASHRAE 105—2021</b> Standard Methods for Determining, Expressing, and Comparing Building Energy Performance and Greenhouse Gas Emissions	Staff Note: Proponent was unable to provide required copies prior to printing of monograph. Proponent plans to provide the standard during the Subcommittee process.
CEPI-108-21	IECC CE: C403.7, C403.7.8, C403.7.8.1, C403.7.8.2	<b>ASHRAE Guideline 36—21</b> <i>High-Performance Sequences of Operation for HVAC Systems</i>	Contains language that could affect enforceability. For example, Section 3.1.1.2 does not use mandatory language. For instance, 3.1.1.2 (a) states, "For projects complying with the Ventilation Rate Procedure of ASHRAE Standard 62.1-2016," without using mandatory language. Section 3.1.1.3 only provides an informative table. Section 3.1.2 provides a list of setpoints without mandatory language and uses the phrase, "This is an optional entry." Does not appear to require proprietary materials. Promulgation by a consensus process stated in the scope.
<b>ASTM STANDARDS</b>			
CEPI-31-21	IECC CE: C402.1, C402.3 (NEW)	<b>ASTM C835—06(2020)</b> <i>Standard Test Method for Total Hemispherical Emittance of Surfaces up to 1400°C<sup>1</sup></i>	Appears written in mandatory language. Does not appear to require proprietary materials. Promulgation by a consensus process stated in the scope.
REPI-14-21	IECC RE: R303.1.4.1	<b>ASTM C1303/C1303M—19</b> <i>Standard Test Method for Predicting Long-Term Thermal Resistance of Closed-Cell Foam Insulation</i>	Appears written in mandatory language. Does not appear to require proprietary materials. Promulgation by a consensus process stated in the scope.
REPI-13-21 REPI-141-21	IECC RE: R303.1.1.2 R408.2.6	<b>ASTM C1313/C1313M—13(19)</b> <i>Standard Specification for Sheet Radiant Barriers for Building Construction Applications<sup>1</sup></i>	Appears written in mandatory language. Does not appear to require proprietary materials. Promulgation by a consensus process stated in the scope.
REPI-165-21	IECC RE: Appendix RD 101.1 (New)	<b>ASTM C1363—19</b> <i>Standard Test Method for Thermal Performance of Building Materials and Envelope Assemblies by Means of a Hot Box Apparatus</i>	Appears written in mandatory language. Does not appear to require proprietary materials. Promulgation by a consensus process stated in the scope.
REPI-68-21	IECC RE: R402.6 (New), R402.6.1 (New), Table R405.4.2(1), R503.1.1, R407.2	<b>ASTM C1549—16</b> <i>Standard Test Method for Determination of Solar Reflectance Near Ambient Temperature Using a Portable Solar Reflectometer</i>	Appears written in mandatory language. Does not appear to require proprietary materials. Promulgation by a consensus process stated in the scope.
REPI-13-21 REPI-141-21	IECC RE: R303.1.1.2 R408.2.6	<b>ASTM C1743—19</b> <i>Standard Practice for Installation and Use of Radiant Barrier (RBS) in Residential Building Construction</i>	Appears written in mandatory language. Does not appear to require proprietary materials. Promulgation by a consensus process stated in the scope.
REPI-51-21	IECC RE: Table R402.4.1.1	<b>ASTM E84—18B</b> <i>Standard Test Methods for Surface Burning Characteristics of Building Materials</i>	Currently referenced in the IBC, IRC, IFC, IEBC, IWUIC and IMC.

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REPI-68-21	IECC RE: R402.6 (New), R402.6.1 (New), Table R405.4.2(1), R503.1.1, R407.2	<b>ASTM E903—12</b> <i>Standard Test Method for Solar Absorptance, Reflectance and Transmittance of Materials Using Integrating Spheres</i>	Appears written in mandatory language. Does not appear to require proprietary materials. Promulgation by a consensus process stated in the scope.
CEPI-69-21	IECC CE: C402.5.2, C402.5.3, Chap 6	<b>ASTM E1186—17</b> <i>Standard Practices for Air Leakage Site Detection in Building Envelopes and Air Barrier Systems</i>	Many variabilities in test site setup and potential hazards lead to use of non-mandatory language. Does not appear to require proprietary materials. Promulgation by a consensus process stated in the scope.
REPI-68-21	IECC RE: R402.6 (New), R402.6.1 (New), Table R405.4.2(1), R503.1.1, R407.2	<b>ASTM E1918—21</b> <i>Standard Test Method for Measuring Solar Reflectance of Horizontal and Low-Sloped Surfaces in the Field</i>	Appears written in mandatory language. Does not appear to require proprietary materials. Promulgation by a consensus process stated at the end of the document.
REPI-68-21	IECC RE: R402.6 (New), R402.6.1 (New), Table R405.4.2(1), R503.1.1, R407.2	<b>ASTM E1980—11</b> <i>Standard Practice for Calculating Solar Reflectance Index of Horizontal and Low-Sloped Opaque Surfaces</i>	Appears written in mandatory language. Does not appear to require proprietary materials. Promulgation by a consensus process stated in the scope.
CEPI-214-21	IECC CE: C408.1, C408.1.1, C408.2 (New)	<b>ASTM E2813—18</b> <i>Standard Practice for Building Enclosure Commissioning</i>	Appears written in mandatory language. Does not appear to require proprietary materials. Promulgation by a consensus process stated in the scope.
REPI-43-21	IECC RE: R402.4	<b>ASTM E3158—18</b> <i>Standard Test Method for Measuring the Air Leakage Rate of Large or Multi-Zone Building</i>	Appears written in mandatory language. Does not appear to require proprietary materials. Promulgation by a consensus process stated in the scope.
CEPI-199-21	IECC CE: C406.12(3) Table, Table C406.12(4)	<b>ASTM F1696—20</b> <i>Standard Test Method for Energy Performance of Stationary-Rack, Door-Type Commercial Dishwashing Machines</i>	Appears written in mandatory language. Does not appear to require proprietary materials. Promulgation by a consensus process stated in the scope.
CEPI-199-21	IECC CE: C406.12(3) Table, Table C406.12(4)	<b>ASTM F1920—20</b> <i>Standard Test Method for Performance of Rack Conveyor Commercial Dishwashing Machines</i>	Appears written in mandatory language. Does not appear to require proprietary materials. Promulgation by a consensus process stated in the scope.
<b>BPI STANDARDS</b>			
REPI-143-21	IECC RE: R502.2 (N1110.2)	<b>ANSI/BPI 1200-S—2017</b> <i>Standard Practice for Basic Analysis of Buildings</i>	Appears written in mandatory language. Does not appear to require proprietary materials. Promulgation by a consensus process stated in Preface.
<b>CRRC STANDARDS</b>			
REPI-68-21	IECC RE: R402.6 (New), R402.6.1 (New), Table R405.4.2(1), R503.1.1, R407.2	<b>ANSI/CRRC-S100—2021</b> <i>Standard Test Methods for Determining Radiative Properties of Materials</i>	Appears written in mandatory language. Does not appear to require proprietary materials. Promulgation by a consensus process stated in Preface.
<b>CSA STANDARDS</b>			
REPI-65-21	IECC RE: R402.4.2.1	<b>CSA P.4.1—2021</b> <i>Testing method for measuring fireplace efficiency</i>	Appears written in mandatory language. Does not appear to require proprietary materials. Promulgation by a consensus process stated in Preface.

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CEPI-122-21 CEPI-121-21 REPI-95-21	IECC CE: C403.8.5, Table C403.8.5 IECC RE: R403.6.2, Table R403.6.2	<b>CAN/CSA-C439—18</b> <i>Laboratory methods of test for rating the performance of heat/energy-recovery ventilators</i>	Appears written in mandatory language. Does not appear to require proprietary materials. Promulgation by a consensus process stated in Preface.
REPI-65-21	IECC RE: R403.1.3	<b>ANSI Z21-50-2016/CSA 2.22—16</b> <i>Vented decorative gas appliances</i>	Currently referenced in the IRC and IFGC.
REPI-65-21	IECC RE: R403.1.3	<b>ANSI Z21.88-2017/CSA 2.23—17</b> <i>Vented gas fireplace heaters</i>	Currently reference in the IRC and IFGC.
<b>CENTER FOR RESOURCE SOLUTIONS STANDARDS (CRS)</b>			
CEPI-249-21	IECC: CC103.3.2	<b>Green-e® Renewable Fuels Standard-2021</b> <i>Version 1.0</i>	Includes some use of non-mandatory language as such as within Feedstocks for Anaerobic Digestion “In some instances third party verification may be required.” Does not appear to require proprietary materials. Promulgation by a consensus process per the Green-e Standard Setting page on the website. <a href="https://www.green-e.org/about/standard-setting">https://www.green-e.org/about/standard-setting</a> .
<b>CONSUMER TECHNOLOGY ASSOCIATION STANDARDS (CTA)</b>			
CEPI-193-21 REPI-70-21 CEPI-125-21 REPI-90-21	IECC CE: C406, C407, C404.11 IECC RE: R403.1.1, R403.5.4; R403.5.4 (New)	<b>ANSI/CTA-2045-B—2021</b> <i>Modular Communications Interface for Energy Management</i>	Written as a specification, but in mandatory language. Does not appear to require proprietary materials. Promulgation by a consensus process stated in the Notice.
<b>DOD STANDARDS</b>			
CEPI-145-21 CEPI-83-21	IECC: C405.13	<b>MIL-P-17639F (1996)</b> <i>Pumps, Centrifugal, Miscellaneous Service, Naval Shipboard Use</i>	Written as a specification, but in mandatory language. Does not appear to require proprietary materials. Not clear if a consensus process is followed per documents, although considered standard through Department of Defense.
CEPI-145-21 CEPI-83-21	IECC: C405.13	<b>MIL-P-17840C (1986)</b> <i>Pumps, Centrifugal, Close-Coupled, Navy Standard (For Surface Ship Application)</i>	Written as a specification, but in mandatory language. Does not appear to require proprietary materials. Not clear if a consensus process is followed per documents, although considered standard through Department of Defense.
CEPI-145-21 CEPI-83-21	IECC: C405.13	<b>MIL-P-17881D (1972)</b> <i>Pumps, Centrifugal, Boiler Feed (Multi-Stage)</i>	Written as a specification, but in mandatory language. Does not appear to require proprietary materials. Not clear if a consensus process is followed per documents, although considered standard through Department of Defense.
CEPI-145-21 CEPI-83-21	IECC: C405.13	<b>MIL-P-18472G (1989)</b> <i>Pumps, Centrifugal, Condensate, Feed Booster, Waste Heat Boiler, and Distilling Plant</i>	Written as a specification, but in mandatory language. Does not appear to require proprietary materials. Not clear if a consensus process is followed per documents, although considered standard through Department of Defense.
CEPI-145-21 CEPI-83-21	IECC: C405.13	<b>MIL-P-18682D (1984)</b> <i>Pump, Centrifugal, Main Condenser Circulating, Naval Shipboard</i>	Written as a specification, but in mandatory language. Does not appear to require proprietary materials. Not clear if a consensus process is followed per documents, although considered standard through Department of Defense.
<b>DOE STANDARDS</b>			

<b>CODE CHANGE NUMBER</b>	<b>CODE SECTION(S)</b>	<b>STANDARD</b>	<b>STAFF COMMENTS</b>
CEPI-124-21	IECC CE: Table C403.9	<i>10 CFR, Part 430, App U Uniform Test Method for Measuring the Energy Consumption of Ceiling Fans</i>	Currently referenced in IECC-CE.
CEPI-127-21	IECC CE: C404.2 Table	<i>DOE 10 CFR 430, 431</i>	Currently referenced in IECC-CE.
CEPI-84-21	IECC CE: C403.15	<i>10 CFR, Part 430—2015</i>	Currently referenced in IECC-CE.
CEPI-192-21	IECC CE: C405.7, Table C405.7	<i>DOE 10 CFR 431.192</i>	Currently referenced in IECC-CE.
<b>ICC STANDARDS</b>			
CEPI-255-21, Part II CEPI-255-21, Part I	IECC CE: Appendix X101.1	<i>ICC 700—2020 National Green Building Standard</i>	Appears written in mandatory language. Does not appear to require proprietary materials. Promulgation by a consensus process stated in Preface.
CEPI-255-21, Part I CEPI-255-21, Part II	IECC CE: Appendix X101.1	<i>IgCC—2021 International Green Construction Code</i>	Appears written in mandatory language. Does not appear to require proprietary materials. Promulgation by a consensus process stated in Preface.
<b>IEC STANDARDS</b>			
CEPI-193-21 REPI-70-21	IECC CE: C406, C407 IECC RE: R403.1.1, R403.5.4	<i>IEC 62746-10-1—2018 Systems interface between customer energy management system and the power management- Part 10-1: Open automated demand response</i>	Appears written as a specification with a mix of mandatory and non-mandatory language. Does not appear to require proprietary materials. Promulgation by a consensus process stated in Preface.
<b>IEEE STANDARDS</b>			
REPI-113-21	IECC RE: R404.4, Table R405.2, Table R406.2, R407.2	<i>IEEE 1547—2018a IEEE Standard for Interconnection and Interoperability of Distributed Energy Resources with Associated Electric Power Systems Interfaces</i>	Appears written in mandatory language. Does not appear to require proprietary materials. Promulgation by a consensus process stated in Preface.
<b>ISO STANDARDS</b>			
CEPI-31-21	IECC CE: C402.3	<i>ISO 9050: 2003 Glass in building – Determination of light transmittance, solar direct transmittance, total solar energy transmittance, ultraviolet transmittance and related glazed factors</i>	Appears written in mandatory language. Does not appear to require proprietary materials. Promulgation by a consensus process stated in Foreword.
CEPI-249-21 REPI-96-21	IECC CE: CC103.3.2	<i>ISO/IEC 17065: 2012 Conformity assessment-Requirements for bodies certifying products, processes and services</i>	Appears written in mandatory language. Does not appear to require proprietary materials. Promulgation by a consensus process stated in Foreword.
CEPI-72-21	IECC CE: C402.5.9, C403.4.1.4	<i>ISO 27327—1(2009) Air Curtains Units-Laboratory Methods of Testing for Aerodynamic Performance Rating</i>	Appears written in mandatory language. Does not appear to require proprietary materials. Promulgation by a consensus process stated in Foreword.
<b>NEMA STANDARDS</b>			
CEPI-10-21	IECC CE: C201, C405.13	<i>ANSI/NEMA WD-6—2016 American National Standard for Wiring Devices—Dimensional Specifications</i>	Appears written in mandatory language. Does not appear to require proprietary materials. Promulgation by a consensus process stated in preface.
<b>NFRC STANDARDS</b>			
CEPI-31-21	IECC CE: C402.3	<i>NFRC 300—2020 [E0A0] Test Method for Determining the Solar Optical Properties of Glazing Materials and Systems</i>	Appears written in mandatory language. Does not appear to require proprietary materials. Promulgation by a consensus process stated on website.
<b>NUCLEAR REGULATORY COMMISSION STANDARDS</b>			

CODE CHANGE NUMBER	CODE SECTION(S)	STANDARD	STAFF COMMENTS
CEPI-83-21 CEPI-145-21	IECC CE: C403.15 C403.13	<b>10 CFR 50</b> <i>Domestic Licensing of Production and Utilization Facilities</i>	Appears written in mandatory language. Does not appear to require proprietary materials. It is federal law.
<b>OpenADR STANDARDS</b>			
CEPI-193-21	IECC CE: C406, C407 IECC RE: R403.1.1, R403.5.4	<b>OpenADR 2.0a—2019</b> <i>Profile Specification A Profile</i>	Written as a specification of an OpenADR per the Scope. OpenADR 2.0 provides a clear set of mandatory and option attributes. Does not appear to require proprietary materials. Promulgation by a consensus process per ANSI accreditation of Open OASIS.
REPI-70-21	IECC CE: C406, C407 IECC RE: R403.1.1, R403.5.4	<b>OpenADR 2.0b—2019</b> <i>Profile Specification B Profile</i>	Written as a specification of an OpenADR per the Scope. OpenADR 2.0 provides a clear set of mandatory and option attributes. Does not appear to require proprietary materials. Promulgation by a consensus process per ANSI accreditation of Open OASIS.
<b>RESNET STANDARDS</b>			
REPI-44-21	IECC RE: R402.4.1.1	<b>ANSI/RESNET/ICC 301-2022</b> <i>Appendix A</i>	Appears written in mandatory language. Does not appear to require proprietary materials. Promulgation by a consensus process stated in preface.
<b>SAE STANDARDS</b>			
CEPI-26-21 REPI-15-21	IECC: CE: C202 (New), C401.4 (New), C401.4.1 (New), TABLE C401.4.1 (New), TABLE C401.4.2 (New), C401.4.2 (New), C401.4.3 (New) IECC RE: R202 (New), R401.4 (N1101.15), R401.4.1 (N1101.15.1), R401.4.2; Table R401.4.3 (N101.15.2)	<b>SAE J1772—2001</b> <i>Electric Vehicle Conductive Charge Coupler</i>	The portions of the standard applicable under the proposals appear to be written in enforceable language. It does not appear to require proprietary materials or agencies. That the promulgation is by a consensus process according to the website referenced in the preface.
<b>UL STANDARDS</b>			
REPI-51-21	IECC RE: Table R402.4.1.1	<b>UL 723—2018</b> <i>Test for Surface Burning Characteristics of Building Materials</i>	Currently referenced in the IBC, IFC, IRC, IWUIC and the IMC.
REPI-113-21	IECC RE: R404.4, Table R405.2, Table R406.2, R407.2	<b>UL 1741—2021</b> <i>Inverters, Converters, Controllers and Interconnection System Equipment for Use with Distribution Energy Resources</i>	Currently referenced in the IBC, IFC and the IRC.
CEPI-146-21, Part 1	IECC CE: C405.13.1	<b>UL 2202—2009</b> <i>Electric Vehicle (EV) Charging System – with revisions through February 2018</i>	Currently referenced in the IBC.
CEPI-146-21, Part 1	IECC CE: C405.13.1	<b>UL 2594—2016</b> <i>Standard for Electric Vehicle Supply Equipment</i>	Currently referenced in the IBC.
CEPI-249-21	IECC CE: CC103.3.2	<b>UL 2854—18</b> <i>Standard for Sustainability for Renewable Low-Impact Electricity Products</i>	Currently referenced in the IgCC.

**3.6 Referenced Standards:** In order for a standard to be considered for reference or to continue to be referenced by the Codes, a standard shall meet the following criteria:

### **3.6.1 Code References:**

- 3.6.1.1 The standard, including title and date, and the manner in which it is to be utilized shall be specifically referenced in the Code text.
- 3.6.1.2 The need for the standard to be referenced shall be established.

### **3.6.2 Standard Content:**

- 3.6.2.1 A standard or portions of a standard intended to be enforced shall be written in mandatory language.
- 3.6.2.2 The standard shall be appropriate for the subject covered.
- 3.6.2.3 All terms shall be defined when they deviate from an ordinarily accepted meaning or a dictionary definition.
- 3.6.2.4 The scope or application of a standard shall be clearly described.
- 3.6.2.5 The standard shall not have the effect of requiring proprietary materials.
- 3.6.2.6 The standard shall not prescribe a proprietary agency for quality control or testing.
- 3.6.2.7 The test standard shall describe, in detail, preparation of the test sample, sample selection or both.
- 3.6.2.8 The test standard shall prescribe the reporting format for the test results. The format shall identify the key performance criteria for the element(s) tested.
- 3.6.2.9 The measure of performance for which the test is conducted shall be clearly defined in either the test standard or in Code text.
- 3.6.2.10 The standard shall not state that its provisions shall govern whenever the referenced standard is in conflict with the requirements of the referencing Code.
- 3.6.2.11 The preface to the standard shall announce that the standard is promulgated according to a consensus procedure.

### **3.6.3 Standard Promulgation:**

- 3.6.3.1 Code change proposals with corresponding changes to the code text which include a reference to a proposed new standard or a proposed update of an existing referenced shall comply with this section.

**3.6.3.1.1 Proposed New Standards.** In order for a new standard to be considered for reference by the Code, such standard shall be submitted in at least a consensus draft form in accordance with Section 3.4. If the proposed new standard is not submitted in at least consensus draft form, the code change proposal shall be considered incomplete and shall not be processed. The code change proposal shall be considered at the Committee Action Hearing by the applicable code development committee responsible for the corresponding proposed changes to the code text. If the committee action at the Committee Action Hearing is either As Submitted or As Modified and the standard is not completed, the code change proposal shall automatically be placed on the Public Comment Agenda with recommendation stating that in order for the public comment to be considered, the new standard shall be completed and readily available prior to the Public Comment Hearing. If the committee action at the Committee Action Hearing is Disapproval, further consideration on the Public Comment Agenda shall include a recommendation stating that in order for the public comment to be considered, the new standard shall be completed and readily available prior to the Public Comment Hearing.



**3.6.3.1.2 Update of Existing Standards.** Code change proposals which include technical revisions to the code text to coordinate with a proposed update of an existing referenced standard shall include the submission of the proposed update to the standard in at least a consensus draft form in accordance with Section 3.4. If the proposed update of the existing standard is not submitted in at least consensus draft form, the code change proposal shall be considered incomplete and shall not be processed. The code change proposal, including the update of the existing referenced standard, shall be considered at the Committee Action Hearing by the applicable code development committee responsible for the corresponding changes to the code text. If the committee action at the Committee Action Hearing is either As Submitted and As Modified and the updated standard is not completed, the code change proposal shall automatically be placed on the Public Comment Agenda with the recommendation stating that in order for the public comment to be considered, the updated standard shall be completed and readily available prior to the Public Comment Hearing. If the committee action at the Committee Action Hearing is Disapproval, further consideration on the Public Comment Agenda shall include a recommendation stating that in order for the public comment to be considered, the updated standard shall be completed and readily available prior to the Public Comment Hearing.

Updating of standards without corresponding code text changes shall be accomplished administratively in accordance with Section 4.6.

**3.6.3.2** The standard shall be developed and maintained through a consensus process such as ASTM or ANSI.