

Guests please sign into chat with name and representation. If you can change your name in Webex to include representation that is also appreciated. Thank you



## Residential Code Consensus Committee

April 20, 2023

# Meeting Decorum

## Guiding Principles

Be courteous and act in a professional manner at all times. This includes the chat box.

Respect the views and opinions of others.

In order to participate in the meetings of a committee, all participants are required to identify their name, representation, and business affiliation and adhere to the Code Council's *Code of Ethics*. (Section 7.2 of CP 7 *Committees and Members*)

At all times, act in an ethical manner, comply with the ethical rules and regulations related to his or her profession, and avoid conflicts of interest. Demonstrate integrity, honesty, and fairness while participating in ICC activities. (*ICC Code of Ethics*)

# Anti-trust Compliance

## Guiding Principles

- Avoid activities that harm competition
- Avoid improper sharing of information
- Avoid spill over collusion

## With Respect to Pricing:

- Focus on publicly available pricing
- Speak in terms of generality
- Use averages
- Avoid naming specific manufacturers

# Copyright

## ASSIGNMENT OF COPYRIGHT

Any and all materials developed in drafting of code change proposals and public comments shall be copyrighted by the ICC. Copyright protection for the benefit of the ICC, including language developed from a code, standard or work product copyrighted by the individual's organization. Under no circumstances will text be copied from another standard or work product without permission and subsequent copyright being held by ICC.

**2021 Energy Consensus Committee-  
Residential**

3/30/23

**CHAIR**  
J.C. Hudgison, CBO, Chair  
City of Tampa – Construction Services

**VICE CHAIR**  
Bridget Herring, CEM  
City of Asheville

**Charles Allen - H**  
City of Ammon Building Department

**Jennifer Amann - G**  
American Council for an Energy Efficient Economy

*Michael Waite -Alternate- G*  
American Council for an Energy-Efficient Economy

**Robert Austin - H**  
NJ Department of Community Affairs,  
Division of Codes and Standards

**Kyle Bergeron - Primary - A**  
Air-Conditioning, Heating and Refrigeration  
Institute (AHRI)

*Laura Perillo-Groh-Alternate -A*  
Air-Conditioning, Heating and Refrigeration Institute  
(AHRI)

**Amy Boyce, PE, LEED AP BD+C, CEM - G**  
Rep: Energy Efficient Codes Coalition  
Institute for Market Transformation

*Cheryllyn Kelley-Alternate -G*  
Institute for Market Transformation  
Washington, DC

**Patricia Chawla, LEED AP, PMP - E**  
Rep: Austin Energy Green Building/Austin  
Energy/City of Austin

*Garrett Jaymes, P.E. LEED AP -Alternate- E*  
Austin Energy Green Building

**Clifford Davis, AIA - B**  
Toll Brothers, Inc.

**Paul Demers - H**  
State of Maine

**Stephen Dent, M.Arch, AIA, NCARB - D**  
Dent & Nordhaus, Architects

**Ann Edminster - D**  
Design AVEnues LLC

*Nehemiah Stone-Alternate - D*  
Stone Energy Associates

**Pamela Fasse, MS, IECC certified, LEED Green  
Associate, NGBS Certifier, NCLGC - B**  
Fasse Construction and Development Inc.

**Ian Finlayson - H**  
MA Department of Energy Resources

**Kevin Gobble, M.S. and CBO - H**  
Cobb County  
Marietta, GA

**Emma Gonzalez-Laders, RA, LEED AP, CEO - H**  
NYS DOS Division of Building Standards and  
Codes

*Daniel Carroll-Alternate - H*  
NYS DOS Division of Building Standards and Codes

**Gary Heikkinen, P.E.-retired - E**  
Rep: American Gas Association  
Energy Consultant

*Shannon Corcoran-Alternate - E*  
American Gas Association

**John Edwin Hensley -Primary - G**  
Habitat for Humanity International

*Molly Berg- Alternate - G*  
Habitat for Humanity International

**John Hensley - C**  
BPS Consulting

**Shane Hooper - H**  
City of Dubuque

**Craig Drumheller - A**  
Rep: Window & Door Manufacturers Association

*Cesar Lujan - Alternate -A*  
Window & Door Manufacturers Association

**R L Johnson, CAPS**  
Rep: National Association of Home Builders  
President/CEO  
CAPS Builder division of Right at Home

**Vladimir Kochkin - B**  
National Association of Home Builders

**Alison Lindburg - G**  
Rep: Midwest Energy Efficiency Alliance

**Mark Lyles, Primary, CPHC - G**  
New Buildings Institute  
*Ben Rabe-Alternate-G*  
New Buildings Institute

**Gavin Mabe, P.E. - B**  
Clayton Homes

**Ricardo Madrid, CBO - H**  
City of Victoria, TX

**Thomas Marston - D**  
Energy Rater, New Home Program Manager  
Mid/Atlantic/Greengurus LLC

**Amy Martino, RA, LEED AP - D**  
Building Site Synergy, LLC

**Jim Meyers, CGP, CSC - G**  
Southwest Energy Efficiency Project (SWEEP)

**Michael Noble - G**  
Rep: Fresh Energy

**Robert Parks - B**  
Healthy Homes of Louisiana, LLC

**Richard Potts, CBO – Primary - H**  
Code Development Administrator  
Virginia Department of Housing and Community  
Development

*Paul Messplay, MCP, CBO, CFM -Alternate- H*  
Code and Regulation Specialist  
Virginia Department of Housing/  
State Building Codes Office

**William Pousson, Jr., MCP- H**  
South Central Planning and Development  
Commission  
Gray, LA

**Robert Raymer, P.E. (Mechanical), Primary - B**  
Rep: Leading Builders of America

*Thomas Paine, Alternate- B*  
Rep: Leading Builders of America

**Mark Rodriguez - A**  
Sunrun

**Gil Rossmiller - H**  
Victor, Colorado  
Denver, CO

**Robert Salcido, P.E., Primary - G**  
Pacific Northwest National Laboratory (PNNL)

*Michael Tillou, P.E., ASHRAE BEMP-Alternate-G*  
Pacific Northwest National Laboratory

**Amy Schmidt, LEED Green Associate - A**  
American Chemistry Council

**Brian Shanks - B**  
Beazer Homes USA, Inc.

**Michael Stone, CBO - C**  
National Electrical Manufacturers Assoc. (NEMA)

**Richard Truitt - H**  
Harford County MD

**Lauren Urbanek, Primary - G**  
Natural Resources Defense Council

*David Goldstein, Ph.D. – Alternate-G*  
Natural Resources Defense Council

**Gayathri Vijayakumar - D**  
Principal Mechanical Engineer  
Steven Winter Associates, Inc.

**Seth Wiley, RA, AIA, NCARB, CPHC, CDT, SAP  
- D**  
NY & NJ/ Pretty Things Architecture P.C.

**Jeremiah Williams, LEED AP, PMP - H**  
U.S. Department of Energy

*Christopher Perry, P.E., C.E.M., LEED AP-  
Alternate - F*  
American Council for an Energy Efficient Economy

**Jeremy Wright, CPBD - B**  
J. Wright Home Designs, LLC

**Interest Category**

- [A] Manufacturer
- [B] Builder
- [C] Stds Promulgator/Testing Lab
- [D] User
- [E] Utility
- [F] Consumer
- [G] Public Segment
- [H] Government Regulator
- [I] Insurance



# Consensus Committee Roster

## Tabled items from 4/13

RED1-75-22(Credit for homeowner education)  
 RED1-263-22(Add. Efficiency credits for existing bldgs.)  
 RED1-250-22(Basement wall and slab on grade insulation)  
 RED1-266-22(Additions compliance)  
 RED1-273-22(Wall alt vapor retarders)  
 RED1-2-22(Approved Source)  
 RED1-16-22(Approved third-party inspection agencies)  
 REPCD1-17-22  
 RED1-21-22 PI & II(Renewable energy resources)  
 RED1-23-22(Renewables and biomass)

Modeling split 7-7  
 Existing bldg. approve 4-3  
 Modeling disapproved 13-0-2  
 Existing bldgs. Disapprove 6-1  
 Existing bldgs. As modified 7-0  
 Admin disapprove 5-0  
 Admin as modified 4-0  
  
 Admin disapprove 6-1  
 Admin disapprove 6-0

## New proposals

REPCD1-19-22(LBA support of omnibus)

RED1-259-22(Wall insulation edit)  
 RED1-86-22(Electrification credit)  
 RED1-261-22(Add general section)  
 RED1-41-22(R405 multiplier public comment)

Modeling disapprove 8-5-1  
 Modeling disapprove 8-5-1  
 Envelope approve 15-0  
 Envelope disapprove 11-4

RED1-30-22(Tighter envelope backstops)

Envelope disapprove 11-8

IRCED1-8-22(Cool roof in Table N1108.2.1.3)

Envelope approve 15-0

RED1-254-22(Fenestration modifications)

Envelope as modified 15-0

RED1-84-22(R408 credits for fenestration improvements)

Envelope disapprove 14-0-1

RECD1-11-22(Floor insulation)

Envelope approve 13-0-1

RED1-230-22(Component floors)

Envelope as modified 9-4-1

REPCD1-18-22(Floor insulation question)-public comment

no vote taken

## Agenda Action Items

RED1-194-22(Air space R-value requirements)  
 RED1-218-22(Radiant barriers)  
 RED1-260-22(Editorial revision)  
 REPCD1-4-22(R408.2 table TBD)  
 REPCD1-5-22(Heat pump and TBD)  
 REPCD1-20-22(Efficient HVAC equipment comment)  
 RED1-310-22(Demand recirc water system edit)  
 RECD1-1-22(Exhaust control)  
 RED1-285-22(Duct system)  
 RED1-308-22(Max. total duct system leakage)  
 RED1-307-22(Duct leakage table)  
 RED1-305-22(Clarify duct location in ceiling)  
 RED1-306-22(Ducts buried within ceiling insulation)  
 RED1-302-22(Duct insulation exception)  
~~RED1-303-22(Duct insulation exception)~~  
 RED1-359-22(More efficient duct system)  
 RED1-342-22(Electric readiness space heating option)  
 RED1-343-22(H/ERV option)  
 RED1-352-22(Water heater efficiencies)  
 RED1-77-22(R408 mech equipment edit)  
 RED1-337-22(Air leakage and mech ventilation reorg)  
 RED1-27-22(Glide path to zero net energy)  
 RED1-28-22(Operational carbon rating and energy)

Envelope as modified 14-0  
 Envelope approve 14-0  
 Envelope approve 14-0

HVACR as modified 9-0  
 HVACR approve 5-3-1  
 HVACR as modified 7-2  
 HVACR disapprove 9-0  
 HVACR disapprove 7-0-2  
 HVACR disapprove 8-0  
 HVACR disapprove 8-0  
 HVACR approve 7-1-1  
~~HVACR disapprove 8-0-1~~  
 HVACR approve 10-0  
 HVACR disapprove 7-0-2  
 HVACR as modified 7-0-2  
 HVACR disapprove 8-0-1  
 HVACR disapprove 7-1-1  
 HVACR approve 8-0  
 Modeling as modified 9-3-2  
 Modeling as modified 7-4-2

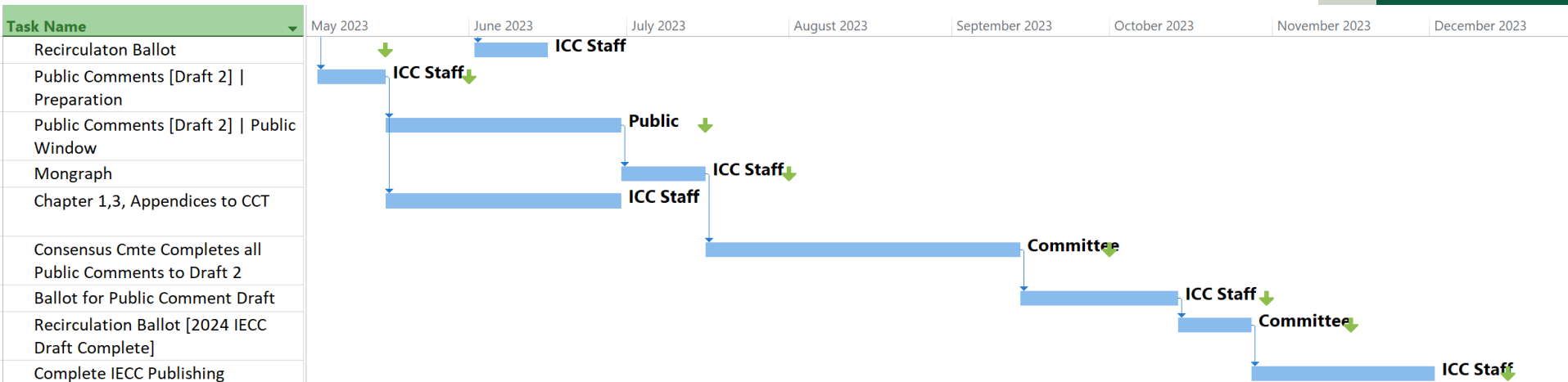
## Schedule moving ahead

- 1) Committee Action Report/Consensus Ballot #1 issued first week of May
- 2) Consensus Ballot #1 due 30 days from issue date
  - a) electronic ballot to provide overall vote
    - 1) affirmative
    - 2) affirmative with comment
    - 3) negative with reason
    - 4) abstain
  - b) comments emailed to staff in a word file by 11:59 pm pacific on due date
- 3) Recirculation Ballot #2 issued. Due 14 days following issue date (mid June)
  - a) Only new comments needed
  - b) If no modifications to Ballot #1 then Ballot #2 not necessary
- 4) Items that receive more than 1/3 negative ballots will be placed on an agenda of a special meeting of the consensus committee. If a meeting is held an absentee ballot will be provided to those not in attendance.
- 5) Results of meeting that modify Public Comment Draft #2 will be incorporated into an update and posted for comment (separate from initial PCD#2 comment period).



## Schedule moving ahead

- 5) Public Comment Draft #2 will be posted mid-May
- 6) Public Comment Draft #2 will be open for comment in energy.cdpassess for 45 days (due end of June).
  - a) Only substantive technical changes to Public Comment Draft #1 will be open for comment
  - b) IECC-C, IECC-R, IRC Chapter 11 will be open during this period
- 7) Monograph of public comments to PDC#2 will be posted on the committee websites (mid-July). Public comments assigned to appropriate subcommittees.
- 8) Subcommittees/Consensus committees to resolve all public comments (timeframe based on number of comments)
- 9) All approved/approved as modified proposals will be issued through a Committee Action Report and balloted under similar process as PCD#2
- 10) Final results of balloting will result in the 2024 IECC



## Subcommittees (Recommended/Assigned)

Consistency and Administration	32/32	100%
Econ, Modeling, Metrics	86/86	100%
Electrical Power, Lighting, Renewables, Storage	117/117	100%
Envelope and Embodied Energy	89/89	100%
Existing Buildings	18/18	100%
HVACR & Water Heating	96/96	100%
Total	430/433	100%
Consensus Committee	365/433	85%
68 proposals remaining/2 meetings=34 proposals/meeting		