Residential Building Committee
Chicago Winter Meeting
January 22, 2018

These draft minutes have not been approved and are not the official record until approved by the Residential Building Committee

Attendance

15 Voting Members: Quorum = 8

Voting Members 2017-18 (Term)	Attendance 1/22/18	Ex-Officio Members 2017-18	Attendance 1/22/18
Chris Mathis – Chair (2018)	X	Van Baxter – Board Ex-O	X
Theresa Weston – Vice-Chair (2018)		Ginger Scoggins - CO	
Charles Culp (2018)		Lilas Pratt - Staff	X
Chris Gray (2019)			
Chris Van Rite (2019)		**Consultants 2017-18**	
Dan Int-Hout (2020)	X	Craig Drumheller - NAHB	
David Lee (2018)		Glenn Hourahan - ACCA	X
David Weishun (2019)	X		
Jeff Inks (2019)	X	**Liaisons**	
Neil Leslie (2019)	X	Bill McQuade (GGAC)	X
Pankaj Dharker (2020)	X		
Pat Graef (2020)			
Paul Francisco (2019)	X		
Richard Karg (2020)	X		
Robert Bean (2018)	X		

Guests	
Scott Grefsheim	Auralee MacPherson
Stephanie Mages	Jeremy Pollack
Jeff Gatlin	Karin Spalink
Larry Markel	Carl Grimes
Mick Schwedler	Rachel Romero
Randall Higa	Marianne Touchie
Laurence Carolan	Stan Rusek
Scott Hellendrung	Danko Davidovic
David Treleven	Sam Taylor
Allison Bailes	Max Sherman
Joel Martell	

Principal Motions[1]

Motion 1: The Chair brought the December 15, 2017 web meeting minutes to the floor for approval.
Vote: Motion passed without objection

Motion #2: Publications Subcommittee moved that the proposed PMS roster be recommended for approval.
Vote: Motion passed by voice vote (9-0-0, CNV)

New and Open Action Items

January 30, 2017 Las Vegas Winter Meeting			
3	Jeff Inks	Lead a task group to write the Reference Manual for RBC *Now in process – complete by June 2018*	On-going

June 26, 2017 Long Beach Annual Meeting			
2	Charlie Culp, Rick Karg, Paul Francisco, Chris Mathis, Robert Bean, David Lee	Do a deep dive search on existing residential educational offerings and provide recommendations to RBC in Chicago on what is needed and what RBC should act on. ▫ *Charlie Culp will call a meeting* ▫ *Look into whether an educational subc is needed.*	On-going
5	RBC Members	Provide recommendations to Theresa Weston for workshops at the Building Conference Series committee	On-going
6	RBC Committee	Capture the historical residential transactions and request that those be a part of ASHRAE's 125 year anniversary (Action item from Technology Council)	On-going

September 5, 2017 Technical Subcommittee Meeting			
3	Robert Bean	Contact TC 2.1 to determine status of the RTAR on thermal comfort in residences.	On-going

September 21, 2017 Conference Call Web Meeting			
3	Neil Leslie	Reach out to Kelly Cramm, chair of TAC, regarding TC involvement in future technical programs on residential topics.	On-going
4	RBC Members	Reach out to their respective TC's regarding future technical programs on residential topics.	On-going

[1] All motion votes are listed as yes-no-abstain.

December 15, 2017 Conference Call Web Meeting			
2	Theresa Weston	Investigate meeting time options for the Buildings Conference committee in Chicago that don't conflict with the RBC meeting.	New
4	Stakeholders and Conferences SubC	Form a task group to identify and prioritize conference events for ASHRAE participation	New
6	Neil Leslie	Draft a letter to be sent to TC Program Subcommittee chairs regarding papers and programs for Houston and Atlanta	New
7	Lilas Pratt	Distribute letter to TC Program Subcommittee chairs for identified TCs with residential activity.	New
8	Publications	Look into the Houston Research Summit track topic for possible submissions (February 9 deadline)	New
9	Chris Mathis	Ask CTTC how best to get Technical Program content to the chapters.	Closed
10	Chris Mathis	Reach out to Charlie Culp regarding help needed chairing the Technical Subcommittee	New
11	Subcommittees	Develop succession plans for subcommittee chair position	New
12	Subcommittee Chairs	Consider and report on continuity needs for their subcommittees	New
13	RBC members	Reach out to Chris Mathis regarding interest in participating in a TG rethinking ASHRAE's role in the residential market.	New

January 22, 2018 Chicago Winter Meeting			
1	RBC Members	Review GGAC report and send comments to Lilas Pratt	New
2	Chris Mathis	Coordinate development of a message and plan to address TC section breakfasts at Houston Annual Meeting (6/2018) regarding residential content.	New
3	Lilas Pratt	Ask how often chapters purchase technical program seminar recordings	New
4	Chris Mathis	Send PPT slides to RBC members for comment and feedback.	New
5	SubC Chairs	Schedule regular monthly subcommittee meetings	New

Meeting Minutes

1. Call to Order (Mathis) - **Meeting convened at 9:02 CST.** Quorum was established.

2. Review of Agenda

3. Approval of minutes (Mathis)
    a. December 15, 2017 Web Meeting (*File: 12-15-17 RBC Web_Mtg_Minutes.pdf*)

Motion 1: The Chair brought the December 15, 2017 web meeting minutes to the floor for approval.
Vote: Motion passed without objection

4. Liaison Reports
    a. GGAC
        - Bill McQuade provided a recap of GGAC activities in support of initiatives in the residential space. A report was issued and shared with the RBC in the fall of 2017. (File: *MBO #3 Interim Report Final Version 3 Submitted to GGAC ExCom 4 13 2017.docx*)
        - Moving forward with the suggestions in the report will require coordination between GGAC and RBC. GGAC will be developing documents to use in promoting these standards.
        - RBC expects to add to the lists in the report.

    b. Staff Report (Pratt) – nothing to report at this time.

    c. ExO Report – Attachment A
        - Van Baxter presented his Executive Officer (ExO) report to the committee.

5. Old Business
    a. Review of current Action Items
        - 9/21/17 Action Item: It was suggested that the committee coordinate with Mike Vaughn to add a page to the paperwork for and to visit/speak at the TC section breakfasts at the next ASHRAE meeting.
        - 12/15/17 Action Item: It was noted that recordings of ASHRAE Conference Technical Program Seminars are available to Chapters for $100. The recordings can be shared with all chapter members at chapter meetings. These recordings are often used in place of last minute speaker cancellations.

6. Subcommittee Reports
    a. Programs
        - Neil Leslie recapped the activity for sessions at upcoming meetings and noted that he is available to help with submissions. He also suggested connecting TC program chairs him in regards to co-sponsoring programs for meetings.

- Chicago Winter Meeting: There were a number of residential sessions at the Chicago Meeting including the residential sessions being conducted at the AHR Expo on Monday, January 22.
- Houston Annual Meeting: The deadline is February 9 for seminar, forum, workshop, panel or debate proposals for the Houston meeting. The proposal includes a title, abstract, author information, and learning objectives.
- Programs SubC chair (Wade Conlin) for EHC contacted Mr. Leslie regarding a session for the Houston meeting on flooding, restoration, and impacts. They are looking for co-sponsorship and to collaborate with RBC specifically for residential content.
- Atlanta Winter Meeting: The deadline is March 5 for conference papers (single blind) or technical papers (double blind) for the Atlanta Winter meeting.
- Succession planning: This subcommittee needs to recruit someone who is passionate about and interested in the task of soliciting and helping the development of residential technical sessions.

b. Conferences & RBC Webpage Upkeep
- Theresa Weston recapped the status of the Building Conference Series. They are working on final details for the handover from DOE to ASHRAE and looking at ideas for workshops. The call for papers should go out in April or May 2018.
- Individuals continue to make presentations on ASHRAE residential standards and activities at outside conferences. Robert Bean, Theresa Weston, Chris Mathis, Paul Francisco and others have either given presentations or are scheduled to give presentations this year.
- ASHRAE standard 34 is about to publish and has residential applications.

c. Publications
- Paul Francisco recapped the status of Journal articles and column. One that fell through the cracks, will be reinitiated for the March issue.
- The columns will now move to March, June, etc.
- The subcommittee would also like to do something on the Multi-Family (MF) Design Guide project and other MF activity going on in SSPC 62.2.
- Paul Francisco reviewed the subcommittee's discussion prioritizing on-going initiatives. The subcommittee intends to tackle them in the following order:
  - Handbook Index for Residential content,
  - Listing of all peer reviewed technical articles published by ASHRAE
  - Deep dive into existing educational offerings,
  - Developing courses for stakeholders.
- The educational topics will be put on hold until the other items are completed. All of these will need coordination with the appropriate ASHRAE committees responsible for those items.
- RBC may wish to create another subcommittee for education at some point.
- This work also feeds into the gap analysis on what needs to be pursued moving forwards (see Technical SubC report below).
- This SubC will incorporate the historical residential transactions search into their existing actions (looking at 1920 to 2000).

- Mr. Francisco updated the committee on the status of 1821-RP Multi-family Design Guide project.
    - The contractor is finalized and under contract.
    - They have provided their first deliverable which is an expanded Table of Contents.
    - That needs to be approved by the PMS in order to move forward.
    - There is a need to adjust the membership of the PES as it changes into the PMS.
    - Roster changes would need to be approved.
    - Pat Graef volunteered to chair the PMS.
    - PMS members will be Paul Francisco, Paul Haydock, Pankaj Dharker, Chris Gray.
    - Rick Karg will be an alternate on the PMS.

Motion #2: Publications Subcommittee moved that the proposed PMS roster be recommended for approval.
Background: Proposed roster is Graef (chair), Dharker, Francisco, Gray, Haydock, Karg (alternate)
Vote: Motion passed by voice vote (9-0-0, CNV)

Secretary's note: The PMS roster was subsequently approved as required.

d. Stakeholders
    - Chris Gray recapped the activities of the subcommittee and also noted the loss of members from the subcommittee. He asked for additional volunteers to join the subcommittee.
    - <u>Utility Stakeholders:</u> Representatives from various utilities attended and participated in the subcommittee meeting.
        - Items discussed included a lack of communication between code officials and utilities and the gaps that occur as a result of that.
        - The group represented large base of customers.
        - The noted multi-family focus was well received.
    - <u>Stakeholders List:</u> The subcommittee is working on a targeted list identifying where to focus efforts at collaboration.
        - The goal is to identify organziations that want to work with ASHRAE
        - The ranking and culling of the list is on-going.
        - Suggestion to reach out to Better Buildings.
    - <u>Strategic Involvement with ACCA:</u> This is an on-going collaboration. Intent is to use that as a prototype for involvement with other organizations.
    - <u>Building Science Education:</u> This topic needs to find the appropriate home within the committee.
    - Sam Taylor volunteered to help with education initiatives.

e. Technical
    - Chris Mathis reported on the discussions in the subcommittee.
    - Active house is no longer being pursued.
    - <u>Standard 90.2:</u> Theresa Weston updated on the status of Standard 90.2
        - The SSPC is planning to finalize the responses to the comments at this Chicago meeting.

        - A total of 164 comments were received with 52 that were substantive.
        - There will either be a second public review or an ISC depending on what is needed. Publication is probably is still likely a year away.
    - Dan Int-Hout relayed the discussion from the subcommittee regarding mining existing ASHRAE publications and standards for residential content that can be disseminated. The project is also intended to identify information gaps.
    - Globalization of Standards: discussion deferred.
    - Research Projects: discussion deferred.

7. New Business – reference PPT
    a. Nominations for potential New Members
        - The process for nominating members to the committee was outlined.
    b. 2017/2018 MBO Update and Strategic Plan for Tech Council
        - Chris Mathis reviewed the MBOs and the committees strategic Plan as shown in Attachment B. The committee discussed the goals and associated activates. Discussion points included:
            - A goal is to strengthen existing standards though proposals for new content identified by the gap analysis.
            - The strategic plan has to include both low-income and high-income residential needs, along with both DOD and HUD housing.
            - There is a need to address tall buildings in hot and humid climates where issues include open windows and stack effect. Research is needed on climate affects.
            - What content exists in ASHRAE standards that is applicable to these issues?
            - The plan is to mine the information and develop niche marketing collateral that can be distributed to targeted groups.
            - Part of ASHRAE's mission is protecting humanity, and residential buildings house humanity's children. Therefore, there is a need to distribute this information and provide education to those people who will benefit from that information.
            - Suggest emulating ACCA on information provided.
            - Issues like moisture are not addressed in many standards (90.1, 189.1, etc) and these issues are on the cutting edge of high performance buildings.
            - Looking to build a database for hot and humid climates through universities in the Region at Large.

8. Next Meeting
    a. Interim Subcommittee meetings – TBD

9. Adjourn – **Meeting adjourned at 11:57 CST**

Residential Building Committee
Roster & Subcommittees

2017-2018 Committee (Members Appointed)

Voting Members: R Christopher Mathis (Chair), Theresa A Weston (Vice chair), Robert Bean, Charles H Culp III, Pankaj R. Dharkar, Paul Francisco, Patricia Graef, Chris Gray, Jeff Inks, Daniel Int-Hout, Richard Karg, **David F. Lee**, Neil Leslie, **Chris Van Rite**, David Weishuhn

Non-Voting Members: Craig Drumheller (Consultant), Glenn C. Hourahan (Consultant), Van Baxter (BOD Ex-Officio), Ginger Scoggins (Coordinating Officer)

2017-2018 Subcommittees:

- Technical: Dr. Charles Culp (Gray, ~~Lee~~, Inks, Weishuhn, Graef, Int-Hout)
- Publications: Paul Francisco (Bean, Culp, Graef, Karg)
- Stakeholders: Dr. Chris Gray (Weston, ~~Lee~~, Van Rite, *Hourahan*)
- Conferences: Dr. Theresa Weston (~~Lee~~, Leslie, Graef, *Drumheller*)
- Programs: Neil Leslie (Bean, Inks, Dharkar)

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Attachment A – ExO Report to Committees

ExO Report to Committees
2018 Winter Conference

ASHRAE

ASHRAE Wants YOU!

- Standing committee appointments sought for 2018-19
- Join President-Elect Shelia Hayter as she works to position ASHRAE to be the industry leader in the transition toward fully optimizing building energy performance
- ashrae.org/nominate
  - Have to sign in with member login credentials to reach the nomination page
- Nominations due by *February 15*

ASHRAE

Presidential Initiatives – **Extending Our Community**
President's Luncheon Preview

- Global community
- Technological horizon
- Value to members

ASHRAE

Presidential Initiatives – **Extending Our Global Community**
President's Luncheon Preview

- Partnership Award from the UN Environment Ozone Secretariat: Held in Toronto, Canada, November 2017
- Second Developing Economies Conference: Held in Delhi, India, November 2017
  - Brought together engineers, building professionals and policymakers
  - Addressed infrastructure and urbanization challenges in developing economies.
- First CRC Region XIV Europe: Held in Belgrade, Serbia, December 2017
- ASHRAE Associate Society Alliance (AASA): Brussels, Belgium, April 22-23, 2018
  - First meeting outside of North America
  - A forum where 65 professional societies from around the world exchange knowledge and ideas in the arts and sciences of HVAC&R from a global perspective.
  - Currently investigating an evolution into a Global HVAC&R Alliance

ASHRAE

Presidential Initiatives – **Extending Our Global Community**
President's Luncheon Preview

NEW - Region XIV
- Established July 1, 2017
- 1,800 members
- Close collaboration with REHVA and CIBSE

Chapters:
- Cyprus
- Greece
- Ireland
- Portugal
- Spain
- United Kingdom – Midlands
- United Kingdom – London and South-East
- Danube

ASHRAE

Additional chapters coming in 2018

Presidential Initiatives – **Extending Our Technological Horizons**
President's Luncheon Preview

- Multi-Family Residential 1821-RP/SSPC 90.2: 1821-RP goal to deliver low- to mid-rise MF residential building design guide / Revise 90.2 to make it a "beyond minimum" low-rise residential building energy standard (performance that is *at least* 50 % more efficient than the energy efficiency defined by the 2006 International Energy Conservation Code).
- IAQ Conference Series Extended: Goal of partnering with the new *Indoor Environmental Quality Global Alliance* (IEQ-GA).
- Air Infiltration and Ventilation Center Partnership (Coming Soon): To give ASHRAE members full access to their growing library of information.

ASHRAE

Presidential Initiatives – **Extending Value To Our Members** President's Luncheon Preview

- ASHRAE Technology Portal: Subscriber based access to all conference papers in Chicago as well as transactions from Long Beach and other conferences.
- ASHRAE's Reinvestment of Research Dollars: Of the almost $2.7 million raised in Society Year 2016-2017, $2 million went to research projects.
  - ASHRAE matched this amount doubling the support for research.
- Solar Decathlon: Eleven teams participated. ASHRAE was a sponsor and provided judges.

Presidential Initiatives – **Extending Value To Our Members** President's Luncheon Preview

- New Building EQ Portal: Launched December 2017
- New ASHRAE Website: Launching February 2018
- New Standard 90.1 Portal: Launched January 2018
- ASHRAE Leadership Academy: May 18-19, 2018, Atlanta, GA
  - Rising chapter leaders network & learn best practices
- Global Giveback: April 22-28, 2018
  - Service-oriented sustainability events during a one-week period to generate excitement at the local level and increase chapter visibility

#MyASHRAE

Presidential Ad Hocs **Ethics Enforcement Procedures Task Group**

Ethics Enforcement Procedures Task Group will review and recommend changes to ROB 3.980 Enforcement Procedures for Violation of the ASHRAE Code of Ethics. In addition, the Task Group will address procedures for Ethics allegations against Officers and/or BOD members. The Task Group may also consider making the review investigation more independent from ASHRAE leadership.

Task Group Meeting: During the Winter Conference

Presidential Ad Hocs **Regional Staff Support Analysis Task Group**

The Regional Staff Support Analysis Task Group is to study the placement of hired representatives (regional staff) in ASHRAE Regions to support volunteer programs, with particular focus on advocacy.

Preliminary Report to the Board: During the Winter Conference

Nomination Process Ad Hoc

The purpose of the Nomination Process Ad Hoc is to:

- Reviews all documents of the Nominating Committee including the By-laws, Board-Approved Rule's and Nominating Committee Manual of Procedure and reference manual for current relevance.
- Review election procedures of similar organizations (ASME, ASHE, etc.).
- Determine if one nominee per office on the member ballot is appropriate.
- Determine if we should consider cancelling the tenet of "the job seeks the person, the person does not seek the job."
- Determine if the balance of at-large and regional members of the Nominating Committee is optimal.

Final Report Due: April 2018

Global Training Center for Building Excellence -Dubai

- Opened: September 2017
- Purpose: To provide relevant self-supporting training to members and nonmembers in the Middle East and North Africa (MENA) and chapters in the Region at Large.
- Regional instructors and courses modified for the region
- Recognition: Individuals attending 42 hours of instruction and passing a course exam may earn the *ASHRAE Building Excellence Credential MENA.*

Global Training Center for Building Excellence -Dubai

Three courses have been held in Dubai:

- HVAC Design Training (twice)
- VRF Applications

GTC is reaching out to chapters in the RAL to schedule instructors from local engineering societies and universities including:

- Saudi Council of Engineers (SCE)
- Bahrain Society of Engineers (BSE)
- The British University in Egypt (BUE)
- Egyptian Engineers Syndicate (EES)

YEA

- Members Council and the ASHRAE Board approved the Young Engineers in ASHRAE (YEA) Committee transition to a grassroots committee, effective July 1, 2018
- Change: YEA RVCs will now be nominated through each Region's CRC nomination caucus
- Change: YEA Chapter Chair position will become a required chapter position that receives transportation reimbursement to CRC.

STEM Scouts

- Sub-committee members will reach out to one chapter SAC chair in their area responsible for one of the eight STEM Scout groups that were provided as stronger groups.
- Goal: To have the chapter SAC chair and STEM Scouts liaison pilot a partnership.
- Pilot Goal: 3 to 5 chapters involved in pilot
- Timeline: 2 months to reach out for partnership and report

2019-2024 Strategic Plan

Timeline

- November 2017 - December 2017: Select Strategic Plan consultant & negotiate contract
  Complete - McKinley Advisors
- January 2018: Consultant presentation to BOD at ASHRAE Winter Meeting
- March 2018: Board strategic planning session
- June 2018: Board reviews first draft of Strategic Plan
- November 2018: Board reviews and approves revised draft of Strategic Plan
- December 2018 - March 2019: Stakeholder review of and feedback on revised draft of Strategic Plan
- June 2019: BOD approve Strategic Plan 2019-24 at ASHRAE Annual Meeting
- July 2019 - June 2024: Plan is implemented, tracked, and updated as necessary with status reported to the membership with Dashboard

Recent Publications and Standards

- *ASHRAE Design Guide for Dedicated Outdoor Air Systems ASHRAE GreenGuide: Design, Construction, and Operation of Sustainable Buildings*, 5th Edition
- *ASHRAE Pocket Guide for Air Conditioning, Heating, Ventilation, Refrigeration*, 9th Edition
- *ASHRAE Design Guide for Cleanrooms: Fundamentals, Systems, and Performance*
- *ASHRAE Design Guide for Air Terminal Units: Selection, Application, Control, and Commissioning*
- *IT Equipment Power Trends*, 3rd Edition
- *Fundamentals of Design and Control of Central Chilled-Water Plants*
- *Standard 90.1 Users Manual* (both the printed book and online with an online version of the standard and redline)
- *Standard 170-2017: Ventilation of Health Care Facilities Principles of HVAC*

Join Us

- ACREX India 2018, Bangalore, India, February 22-24
- Canadian Mechanical & Plumbing Exposition, Toronto, Canada, March 21-23
- USA Science & Engineering Festival Expo, Washington, D.C., April 7 & 8
- CHR 2018 – China Refrigeration 2018, Beijing, China, April 9-11
- ASHRAE Webcast, Making Energy Efficiency a Reality, April 19
- 2018 ASHRAE Annual Conference, Houston, TX, June 23-27
- ASHRAE 2017 Building Performance Analysis Conference, Chicago, IL, September 26-28
- AHR Expo Mexico, Mexico City, Mexico, October 2-4
- Third International Conference on Efficient Building Design, Beruit, Lebanon, October 4-5
- Chillventa 2018, Numberg, Germany, October 16-18
- Greenbuild 2018, Chicago, IL, November 14-15

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Attachment B – MBOs/Strategic Plan Presentation

Chair's Report

1. Nominations Sought
2. Progress Against MBOs
3. Strategic Plan Initiatives

Nominations Sought

- Nominations for potential appointment to he RBC due by Feb 1
  - Link on website
  - Chris Van Rite – Need replacement
- Others interested?
  - Consider current initiatives and strategic objectives

2017-18 MBOs (1-3)

Item	MBO	Status	Due Date	Assigned To	Applicable Strategies	Specific MBO Actions
1	Generate Journal articles to be compile[illegible] in a spe[illegible] Residential digital issue			[illegible]		• Articles will be published periodically in the Journal over six to seven months. [illegible] compiled for an on-[illegible] be marketed to targeted residential stakeholders – DIFFERENT that regular Journal marketing efforts.
2	Develop[illegible] Reside[illegible] family Design Guide			[illegible] Gerald		• Partner with Developing Economies Committee [illegible] t [illegible] ocess (Summer 2017 vs. Fall 2017) • Publish ASAP, targeting spring 2018.
3	Extend stakeholder outreach [illegible] Utility, [illegible] and Insurance Sectors			[illegible] Gray		• Identify additional potential partners and stakeholders for ASHRAE Residential products, especially 90.2 and the Residential Design [illegible] isting stakeholder partners engaged in residential building performance education and outreach, such as DOE and ICC

Underway!

2017-18 MBOs (4-6)

4	Extend Residential Training and outreach through professional develo[illegible] offerin[illegible] presentations and DL programs			Programs [illegible]		• Develop residential-focused presentations and program plans for 2017-18 Annual and Winter conferences. [illegible] b-ED on residential [illegible] • Work with RBC to develop and residential courses (PPTs) for homeowners and contractors for presentation by ASHRAE members.
5	Extend/Expand the interest in and memb[illegible] Reside[illegible] Committee			[illegible]		• Identify additional representation needed on the RBC. • Seek additional members from those interests. [illegible] ship plan by 7/1/2018 [illegible] anges) and Tech Council DPS Subcommittee (MOP changes?).
6	Extend [illegible] resear[illegible] the re[illegible] environment.			[illegible] Culp, Weston		• Survey TCs to identify current residential research already underway. • Review [illegible] research needs identified [illegible] g. [illegible] • potential collaborative research endeavors. • Extend our research delivery through continued sponsorship efforts on the Buildings conferences

Underway!

Residential Building Leadership:
Strengths, Weaknesses, Obstacles and Opportunities for ASHRAE

Initial Strategic Planning Assessment by
Chris Mathis, Chair, RBC
Dr. Theresa Weston, Vice-Chair, RBC

Updated: 1/22/2018

ASHRAE Mission

To advance the arts and sciences of heating, ventilating, air conditioning and refrigerating to serve humanity and promote a sustainable world.

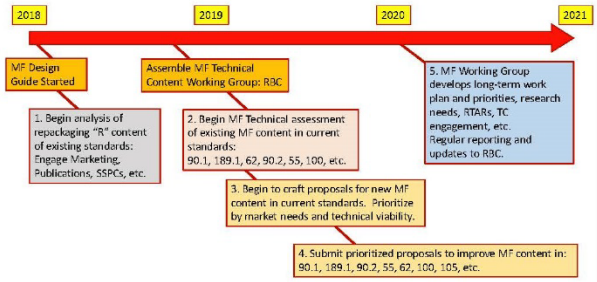
Assessment: Current Position Strengths (1)

- ASHRAE Holds UNIQUE and POWERFUL positions in defining and shaping Residential Building Performance:
  - We OWN the Minimum ENERGY Requirements (Code) for High-Rise (Over 3-stories) Residential
    - 90.1 - Referenced in Federal Law (EPACT 1992)
  - We OWN the Minimum GREEN Requirements (Code) for High-Rise (Over 3-stories) Residential
    - 189.1 (IGCC)
  - We OWN other critical standards defining residential building performance:
    - COMFORT – Standard 55
    - VENTILATION – Standard 62
    - EXISTING BUILDINGS – Standard 100
- **Conclusion 1: High-Rise Residential Building Performance is ours.**
  - We just have to decide what we want to DO with these strong positions.

Assessment: Current Position Strengths (2)

- ASHRAE Holds UNIQUE and POWERFUL positions in defining and shaping Residential Building Performance:
  - We OWN the BEYOND CODE Minimum ENERGY Requirements for Low-Rise (3-stories and Less) Residential – Single and Multi-family
    - 90.2 – Estimated for 2018/19 Publication
  - We OWN other critical standards defining residential building performance:
    - COMFORT – Standard 55
    - VENTILATION – Standard 62
    - EXISTING BUILDINGS – Standard 100
  - We UNDERSTAND that EXISTING BUILDINGS define most of the ENERGY, RESILIENCE and IEQ Challenges/Opportunities in Low-Rise Res
- **Conclusion 2: Leverage what we know to serve existing needs**
  - Plan for the analysis of missing elements/needs in current MF standards

Develop MF Strategic Plan



Initial Step: Repackage Existing "MFR" Content

- 90.1 – R – MF Minimum Energy Code
- 189.1 – R – MF Minimum Green
- 62.1/.2 – R- MF Minimum Ventilation
- 100 – R – MF Existing Building Energy
- 55 – R – MF Comfort

- Marketing tools For GGAC Use
  - For State and local advocacy activities
  - For International Use
- Delivery Mechanisms?
  - Book? Web-based?
  - "Free" = Sponsored?

How do we (more effectively) get our EXISTING CONTENT more widely distributed, used and leveraged?

MF-focused Technical Assessment

- Assemble MF Working Group
  - (Build on existing MF efforts in 62, etc.)
- Conduct technical review of MF content in referenced standards
  - "Gap analysis"
  - 90.1, 189.1, 55, 100, 105, 62, etc.
- Identify "holes" or areas for improvement
  - Prioritize needs
- Develop material to fill prioritized "holes"
  - New language for existing Standards?
  - Research needs? RTARs?
  - Action plans with relevant TCs?

A long-term, strategically-focused work plan for the RBC.

MF Working Group Structure: Proposed

- A part of **RBC Technical Subcommittee**
- Open membership to MF-focused individuals
- Proposals approved through RBC and forwarded to relevant Standards Development Committees
- MF Working Group responsible for:
  - Review of existing MF content
  - Development of new MF content
  - Development of long-term MF work plan (research, priorities, etc.)

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