



NFRC 2010 Fall Membership Meeting  
November 8-11, 2010, San Francisco, CA

## MINUTES

### Research Subcommittee

Tuesday, November 8, 2010

*Block Period: 7:00 a.m. – 3:00 p.m.*

*Chair: Bipin Shah, WinBuild, Inc.*

*Vice Chair: Peter Lyon, Peter Lyons & Associates*

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1. **Chair Bipin Shah (WinBuild, Inc.) called the meeting to order at 7:27 am.**
  2. **John Lewis, NFRC staff appointed recording secretary.**
  3. **Reports**
    - a. Research Project Status and Financial Summary - Ray McGowan, staff provided an update report indicating ample funding for existing project, but a potential shortfall if several new research project are undertaken.
    - b. Long Range Research Planning TG – Chair Shah reported the TG met to categorize all the RFPs and summary pages listed below.
    - c. TDD U-factor Rating Research PMTG-Dave DeBlock, ODL. Final report has been submitted to NFRC staff.
    - d. Window 6-Therm 6 Validation Research PMTG - Joe Hayden (Pella Corporation) provided an update, and noted discrepancies uncovered at the testing laboratory have been addressed. A webinar, scheduled for late January, to review the results. Willie du Pont (Sunergy) provided additional detail on status of the comparison of the test results and the simulation results and the project in general. Motion to extend project to Spring 2011 meeting: Hayden / De Block. Passed 48-1.
    - e. Condensation Resistance Procedure for CMA PMTG-Kevin Vilhauer (Milgard) provided an update on the project. Charlie Curcija also reported, and noted inconsistencies were discovered in the data, and these inconsistencies were preventing full analysis; the problematic THERM files are being reviewed. Motion to extend to Spring 2011 meeting. K Vilhauer / J Hayden. Passed 46-0.
    - f. Complex VT Rating Research PMTG – R. McCluney, W. duPont. R. McCluney advised the project is essentially finished; Christian Kohler (LBNL) provided additional information on the results of the research project. R. McCluney stated one more meeting of the PMTG will be held to review the results of the project prior to the Spring 2011. Chair Shah request that this report be provided to staff so that it can be posted on the website.
    - g. Gas Permeability Research (IGMA project, NFRC cosponsoring)-Werner Lichtenberger, Truseal provided an update; still issues with getting



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reproducible results from the procedure. IGMAC will be discussing the next steps, the project may be terminated.

- h. Ventilation Rating TG-Ray Garries, Jeld-Wen provided an update. Scope has been developed and confirmed. Vent square area is the primary emphasis at this juncture. Defining screen reduction factors has yet to be resolved; the task group will begin working on a draft of the document for balloting. A phone conference call will be held in approximately 3 weeks.
- i. Daylighting Rating TG-Roger LeBrun, VELUX provided a report and noted the Phase I scope is in question, and questioned if the task group will be able to proceed; the task group is looking for guidance. R. McCluney stated that the Phase I rating may be oversimplified and suggested a conference call in an attempt to work through the issues. Chair Shah noted that Phase I was intended to be a simple procedure and Phase II will be more comprehensive procedure.

### 4. Unfinished Business

#### a. RFPs

Develop Improved Algorithms for Improving Accuracy of CMA Methodology RFP-ballot. Proponent: Dr. Charlie Curcija, LBNL (long range priority: improve existing procedures, priority A). Charlie Curcija provided a summary of the project, and noted that the intent is *not* to validate the CMA process through physical testing, but to reduce the variance between ratings obtained with CMAST and those obtained with standard simulation. Motion to find AAMA negative non-persuasive; M. Thoman / T. Culp. Motion passed 27 – 6.

Jeld-Wen negative withdrawn, covered by prior action

AMSCO negative withdrawn, covered by prior action

Pella negative withdrawn, covered by prior action

The Edgetech A/C was reviewed, and spoke in support of the project.

The Marvin A/C was reviewed, addressed by prior action.

The Sun Pine was reviewed, addressed by prior action.

The TRACO A/C was addressed by prior action.

Motion to approve RFP, form a TG and move it forward to R&T Committee. S. Kumar / M. McDonald. Motion passed 30 – 6.



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Members for the TG: T Culp, C Curcija; Chair Shah asked for other volunteers. T. Culp will be the chair of the TG.

- i. Tubular Daylighting Device VT Rating RFP-ballot. Proponent: TDD VT Rating Task Group (long range priority: ensure all products can be rated: priority A)

Ballot negatives were reviewed; the Architectural Testing, Inc. negative was discussed; Mike Thoman's major concern; he maintains that it is unclear as to the scope. Motion to find the ATI negative persuasive and substantive and send the RFP back to task group. M. McDonald / S. Strawn. Motion passed 27 - 14. Chair Shah asked that the concerned individuals provide input to the TG so this can be resubmitted and approved in the future.

NCTL A/C was withdrawn

Entech negative was withdrawn.

- b. Fenestration Illumination Measurement Standard Summary Page Ballot (long range priority: new rating, A priority) Proponent: Dr. Ross McCluney, Sunpine Consulting.

The Entech negative was withdrawn.

The LBNL negative was withdrawn.

Requests for funding support from industry as stated in the numerous A/C were considered, and it was agreed that this point will be included in the RFP.

The Pella A/C regarding project duration was reviewed, and Joe Hayden suggests that this is more than a one-year project.

The Solatube A/C was reviewed; Chair Shah suggested that efforts are not being duplicated with the national labs as we move forward with the RFP.

The Sunergy A/C was reviewed.

The VELUX A/C was reviewed.

The Entech A/C was withdrawn.

Motion to approve and prepare an RFP. J. Hayden /, withdrawn.  
Decision was to turn this into a series of one-pagers.

Motion to approve ballot and accept the concept discussed of developing additional summary pages. Hayden / McCluney. Passed 35 – 0.



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- c. Develop Methodology for Solar-Optical Simulation of Non Planar Glazing Systems Summary Page ballot (long range priority: new rating procedure, priority A) Proponent: Dr. Charlie Curcija, LBNL.

The Entech negative was withdrawn.

The Solatube negative was discussed. J. Hayden / D. De Block moved to find non-persuasive. Motion passed 33 – 7.

The A/C (AAMA AMSCO, Jeld-Wen, Pella) regarding funding were addressed by prior action.

Motion to develop an RFP: D. De Block / M. McDonald, passed 32 – 1.

### 5. New Business

- a. Attachment Summary Page Ballots

- i. Evaluate Impact of Specific Conditions on Attached Awning Performance Summary page ballot (long range priority: new ratings, A priority) Proponent: John Gant, Glen Raven

The 3 ballot negatives were reviewed.

The Entech negative was withdrawn.

The Sunergy negative was withdrawn.

The WESTLab negative; McCluney / T. Culp moved to find non-persuasive. Motion passed 27 – 1.

The A/C related to funding (AMSCO, AAMA, Jeld-Wen, Pella) addressed by prior action.

Motion, R McCluney / J Gant to prepare corresponding RFP, passed 34 – 0.

- ii. Attachments Performance Strategic Plan Summary page ballot (long range priority: new rating, A priority) Proponent: Mudit Saxena, Heschong Mahone Group

The seven (7) negative ballot responses were addressed.

Pella negative. J Hayden / S Strawn. To find persuasive and substantive and to move to RAM, passed 41 – 4.

WESTLab negative; to find persuasive; J Hayden / B Schultz passed 37 – 4.

Jeld-Wen negative withdrawn by previous action.



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Hunter Douglas negative was withdrawn.

Entech negative was withdrawn.

ALI negative was withdrawn based on prior action,

Andersen negative was withdrawn.

The A/Cs were reviewed; Sunergy, NCTL, MechoShade, AAMA.

These comments are to be considered when the proposal is presented to the RAM Committee.

- b. Tubular Daylighting Devices - Research Project to Develop Updated Modeling Procedure Summary Page ballot (long range priority: ensure all product can be rated, priority A) Proponent: Dr. Charlie Curcija, LBNL

The Entech negative was reviewed; L. Condit / R LeBrun moved to find second sentence (“Hybrid”) persuasive and editorial. Motion passed 33 – 1.

The A/Cs were reviewed. Funding (ASE, AAMA, AMSCO, Jeld-Wen, Pella) reviewed and it was agreed to be sure the RFP included such wording.

The ATI A/C on associated costs was reviewed.

The Solatube A/C was reviewed.

The Sunergy A/C was reviewed; W. du Pont stated that LBNL (S. Selkowitz) had stated earlier that LBNL would not bid on RFPs.

Motion to approve the summary page and develop a corresponding RFP (and include “Hybrid” products) by D. De Block / L. Condit passed 46 – 0.

- c. Long Term Energy Performance Related Summary Pages (all on long range priority: Develop New Rating Procedures, priority C) *Note: these summary page agenda items C.i,ii,iii. were not balloted but circulated directly to membership for consideration as the NFRC 703-Research Program Manual allows.*

- i. Thermal Stress on IGs Research-Summary Page Proponent: Valerie Block, du Pont.

The summary page was reviewed. Motion to approve the summary page and develop the corresponding RFP. Motion K. Brenden / U. Sowell passed 42 – 0.



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- ii. Upgrade ASTM E 2190 for IGU Durability Testing-Summary Page  
Proponent: Marc LaFrance, DOE

The summary page was reviewed. Motion to disapprove the summary page. Motion by K. Brenden (proxy, IGMA) / J. Baker failed 7 – 38.

Motion to approve the summary page and develop a corresponding RFP and coordinate these activities with the ASTM E 06 working group. Motion by C. Kohler / W. du Pont passed 51 - 2.

- iii. Research and Coordination to Develop an ASTM Energy Performance Durability Test-Summary Page Proponent: Marc LaFrance, DOE

The summary page was reviewed. Motion to approve the summary page and develop the corresponding RFP. Motion C. Kohler / S. Kumar passed 36 – 13.

- d. CMA summary pages (all not listed on long range priority list):

- i. CMAST Feedback on Usability Study summary page ballot  
Proponent: Mudit Saxena, Heschong Mahone Group

The eight (8) ballot negatives were addressed.

The Associated Laboratories, Inc. negative: Motion to find negative persuasive and substantive by M. Thoman / M. McDonald, passed 27 – 6.

The Entech negative was withdrawn.

A straw poll was taken to obtain feedback on the sentiment of the membership as to if this should be modified and resubmitted to RAM Committee passed 19 – 0

The Jeld-Wen and all remaining negatives were not addressed; Chair Shah requests that MHG consider the points made as the summary page for RAM is developed.

- ii. CMA Impact on HVAC Sizing Study Summary Page ballot.  
Proponent: Mudit Saxena, Heschong Mahone Group

The NCTL negative; Motion to find the negative non-persuasive by T. Culp / J. Hayden was tied at 17 – 17. Motion fails.

Motion to find NCTL negative persuasive and substantive; J. Krahn / S. Johnson passed 26 – 14.



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The remaining negatives were quickly reviewed but no motions were taken as the prior motion defeats the ballot summary.

- iii. CMAST Parametric Targeting Tool- Summary Page ballot.  
Proponent: Mudit Saxena, Heschong Mahone Group

The seven (7) negatives were addressed;

The AAMA negative: Motion to find the negative persuasive by K. Brenden / J. Hayden passed 32 -1.

The remaining negatives were quickly reviewed and were either addressed by prior action or withdrawn.

Chair Shah suggested HMG may choose to resubmit this Summary Sheet at the Software SC.

### 6. Adjourn 1:52 pm