

Research Subcommittee

Tuesday, November 7, 2006

Under Research and Technology Block: 8:30 a.m. – 3:45 p.m.

Chair: Richard Biscoe, Architectural Testing, Inc.

- 1. Minutes from July 2006 (Minneapolis) Meeting approved as presented**
- 2. Jessica Ferris appointed recording secretary**
- 3. Agenda reviewed and approved**
- 4. Reports**
 - a. **Research funding status (Rich Biscoe)** – \$378,000 remaining in funding for research.
 - b. **U-factor Rating of Domed Skylights PMTG (Dave De Block, Chair)** – Charlie Curcija reported. Developing thermal performance simulation for domed skylights. Correlations can be used in WINDOW. Report scheduled to be finalized in January 2007.
 - c. **Investigation of Heat Transfer Effects of Sloped and Ventilated Internal Cavities of Framing Systems PMTG (Gurjinder, Chair)** – Charlie Curcija gave overview of status. Project submitted in October and reviewed at that time. Conference call was scheduled last Friday and overall project reviewed positively. Final conclusions are not satisfactory; this needs to be rewritten and formatted so that real conclusions and recommendations can be made. PMTG needs to review and look at it again. Peer review papers are to be completed at the end of November for publishing.
 - d. **Tubular Daylighting Devices U factor PMTG (Dave De Block, Chair)** – Waiting for test method in 100 and 102, and the peer review paper. The research has been completed except for the technical procedures and the peer review paper.
 - e. **NFRC 100 and 102 Standardization RFP (Willie DuPont, Sam Yuan)** – Willie du Pont will present an RFP in Spring 2007 membership meeting.
 - f. **Research Manual Review Task Group (Rich Biscoe)** – Rich Biscoe wants to know who wants to be contacted to finalize the document: Willie DuPont, Charlie Curcija, Joe Hayden, Ross McCluney, and Chris Mathis. A conference call will be convened soon. Rich asked



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that the volunteers jot down their thoughts/ideas about what should be changed before the conference call.

- g. **Long Range Research Planning Task Group (Rich Biscoe)** – This list will be a guiding document that will be used by the subcommittee to manage research and promote research for NFRC. The list incorporates active projects and projects that need to be addressed. Rich asked members if there were additional items that need to be incorporated.
- i. Mike Thoman recommends that some of the topics be listed out into project names.
 - ii. Ross McCluney indicated that subject and verb should be used to make some of these topics more clear; e.g., some comments should be topics.
 - iii. Rich Biscoe indicated that he will parse the list down with the group and put a description down of what is required from each line item. Rich agrees that some of these items are grouped heavily.
 - iv. Charlie Curcija indicated that projects that are complete or are near completion should be removed from the list.
 - v. Chris Mathis indicated that there should be two lists posted to the website: current projects and those nearing completion.
 - vi. Willie DuPont encouraged broadening the perspective by gleaning input from outside researchers

Rich Biscoe indicated that the lists will be updated in the next few weeks and posted to the website.

h. Condensation Resistance Procedure for the Non-Residential Component Modeling

Approach Bid Review TG (Mike Thoman) – 82.9 was the composite score from the group. No suggested revisions were made to the revision.

MOTION: M. Thoman/T. Culp moved that the bid from Carli Inc. for Condensation Resistance Procedure for the non-residential CMA be accepted with the following change to the payment schedule: 30% start, 30% after task 3, 30% after final report, and 10% after the technical paper. The bid amount is \$79,867 and the timeline – 12 months for final report plus 2 months for technical paper. Passes with unanimous voice vote.



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PMTG for this project: Tom Culp, Jeff Franson (chair), Mike Thoman, Peter Lyons and Jim Krahn.

- i. **Non-Residential Frame Grouping Rules Bid Review TG (Tom Culp)-** There is no peer review paper for this, just proposed language for NFRC 100 and 200. Timing is ten months and funding is \$62,670 with main deliverable by completion of the final report and language for NFRC 100 and 200. Carli, Inc. submitted the only bid.

MOTION: T. Culp/Mike Turner moved that the recommendation be forwarded to the R & T Committee and that the research project *Development of Updated Frame Grouping Rules* be awarded to Carli, Inc. with the following modified payment schedule: Start 20%, After Task 2 20%, After Task 3 30%, and After Final Report 30%

Passes with unanimous voice vote.

PMTG for this project: Tom Culp (Chair), Mike Turner, Larry Livermore, and Mike Young

- j. **Complex Product VT RFP BRTG: (Willie du Pont, Ross McCluney) -** One bid from ATI reviewed by the task group and was voted on. Task Group concluded that bid should not be funded and recommends that the RFP be rewritten.

MOTION: W. DuPont/D. DeBlock moved to refuse the bid submitted by ATI and recommend that the RFP be revised based on the suggestions of the BRTG. Passes with majority voice vote and 1 abstention.

- k. **Spectral Weighting Function RFP Ballot -** Presentation by Willie DuPont. Effect spectral weighting has on SHGC for a variety of fenestration products. The estimated cost is \$35,000 and the timeline for this is 18 months.

Negatives:

BirchPoint Consulting – supports the concept but has concerns about NFRC promoting it in other groups. Would support revising the RFP.

MOTION: T. Culp/M. Turner move to find Birch Point Consulting negative persuasive:

5-Approved; 8- do not approved - Motion fails



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MOTION: R. McCluney/C. Mathis move to find Birch Point Consulting negative non-persuasive.

9-approve; 0- do not approve; 0-abstain - Motion passes

Jeld-Wen Negative withdrawn.

Pella Corporation – editorial comments incorporated into the document and added tilting references. Also Dr. Chris Gueymard should attend NFRC meetings at his own cost. Negative from Pella incorporated into the RFP.

Negative is withdrawn.

Comment – It is recommended that a review group be in place for this sort of unsolicited bid.

Approved with Comments:

AIMCAL - comments addressed

WindBuild comments addressed

MOTION: R. McCluney/B.Shah move to approve *Revision of Standard Spectral Weighting Function for Calculation of Solar Optical Properties and Solar Heat Gain* and forward to the R&T Committee for approval. Motion passes by majority voice vote and 1 abstention

PMTG: Ross McCluney, Bipin Shah (Chair), Mahabir Bhandari, Christian Koehler



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5. New Business -

- a. **Treatment of Double Sash – a summary page request from Dan Wacek –**
Best/Worst matrix for CMA.

MOTION: D. Wacek/G.Carney move to approve the summary page and recommend to R&T Committee for approval.

19-Approved; 3-Do Not Approve – Motion passes

6. Meeting adjourned @ 11:12 AM