



Research & Technology Committee

Chair: Joe Hayden – Pella Corporation

Vice Chair: Steve Strawn – Jeld-Wen, Inc.

1. The meeting was called to order at 12:30 pm.
 - a. An attendance sheet was circulated. All attendees were reminded of the importance of signing the attendance sheet, and checking the appropriate box on the attendance sheet if they desire to become a voting member of the committee.
 - b. All Attendees were welcomed and asked to set cell phones & pagers to Silent Mode.**
 - c. Committee voting requirements were reviewed: one vote per member company listed on the roster.
 - d. All attendees were reminded of the Antitrust Guidelines to be observed during the meeting.
 - e. All attendees were reminded of the NFRC Meeting Guidelines to be observed during the meeting.
2. Jessica Ferris (NFRC Staff) was appointed recording secretary.
3. By consensus, the Minutes from October 10, 2004 (Portland) meeting were approved as submitted.
4. The agenda was presented to all attendees prior to the meeting, and again reviewed at this meeting. Revisions to the agenda were solicited, with none being offered.
5. Subcommittee / Task Group Reports:
 - a. LTEP Subcommittee – Steve Strawn.**

No action items were brought forward, however Steve Strawn reported that the LTEP Subcommittee is preparing a draft technical rating procedure with the intent of submitting the draft for concurrent subcommittee / committee ballot prior to the Summer 2005 meeting in Quebec City.
 - b. Optical Properties Subcommittee – Shelia Gore.**

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- i. Motion to approve NFRC 302-2004 as brought forward by the Optical Properties Subcommittee. The document will be reviewed and reformatted by AZS Consulting prior to final publication. It was also recommended that implementation occur upon publication, and the previous version be sunset at the same time.

M/S Sheila Gore
 Roland Temple

Approved-28; Opposed-0; Abstained-0.

Motion passed.

- ii. Round Robins – Efforts are under way to initiate round robins, but there were no updates to offer at this meeting.
- iii. Discussion of next versions of NFRC 300, 301, and 302
 - Question was asked whether there has been any attempt to coordinate with ASTM. The Optical Properties Subcommittee is pursuing establishing a liaison with ASTM Subcommittee C14.11.

c. Research Subcommittee – Patrick Muessig.

- i. Status of project: “*Effect of Surface Heat Transfer Coefficients on U-Factors for Projecting and Highly Conductive Products*”.

Motion that the Research and Technology Committee agree with the recommendation of the Research Subcommittee to pay 90% of the contract amount for this project to researcher, and the final 10% be paid upon completion of the peer-review paper.

M/S Patrick Muessig
 Roland Temple

Approved-29; Opposed-0; Abstain-1

Motion passed.

- ii. Status of project: “*3D Heat Transfer Effects in Fenestration Products*”

Motion that the Research and Technology Committee agree with the recommendation of the Research Subcommittee to pay 90% of the contract amount for this project to the researcher, and the final 10% be paid upon completion of the peer-review paper.

M/S Patrick Muessig
 Roland Temple

Approved-28; Opposed-0; Abstained-1

Motion passed.

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- iii. Status of ASHRAE papers:
 - 1. Attachments SHGC.
 - 2. Glass Block SHGC.

Motion that the two ASHRAE papers being written by Tait Solar be completed by the Summer 2005 meeting, or the project will be withdrawn from the contractor due to breach of contract with no further award on this project.

M/S Patrick Muessig
Roland Temple

Approved-28; Opposed-0; Abstained-0
Motion passed.

- iv. Ballot of revised Research Manual.

Motion that the 2004 version of the Research Manual be approved and implemented upon publication and the previous version be sunset at the same time. Also, the document will be reviewed and reformatted by AZS Consulting prior to final publication.

M/S Patrick Muessig
Roland Temple

Approved-31; Opposed-0; Abstained-0
Motion passed.

- v. Status of Door Rating Simplification Project

Motion that the bid for this project be awarded to Enermodal in the amount of \$4,984.

M/S Patrick Muessig
Roland Temple

Approved-31; Opposed-0; Abstain-1
Motion passed.

- vi. Update on financials:

Patrick Muessig will give R&T Chair this report at a later time.

d. Thermo Physical Properties Subcommittee – Charlie Curcija.

- i. Ballot of revised NFRC 101.
- ii. Ballot of revised NFRC 101V.

Motion to return NFRC 101 and 101V to the task group and re-ballot both documents prior to the Summer 2005 meeting. Also request the Board of Directors approve the delay in publication of these documents.

M/S Charlie Curcija

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Roland Temple

Approved-29; Opposed-0; Abstain-4
Motion passed.

- e. **Glossary and Terminology Task Group – Charlie Curcija.**
 - i. Nothing to report at this time.

6. Unfinished Business:

- a. **Update on WINDOW 6** – Christian Kohler of LBNL presented an update on the status of WINDOW 6 software. A “pre-beta” version of WINDOW 6 was offered to interested individuals for review and comment back to LBNL. Another update will be given at the Summer 2005 meeting. No action was taken.

7. New Business: No items of New Business were offered.

8. The meeting was adjourned at 1:30 pm.