



NFRC 2007 Spring Membership Meeting
March 5 – 8, 2007, Austin, TX

MINUTES

Annual Energy Performance Subcommittee Tuesday, March 6, 2007

Under the Technical Committee Block: 4:30 p.m. – 5:30 p.m.

Chair: Tom Culp, Birch Point Consulting, LLC

Vice-Chair: Jim Larsen, Cardinal Glass Industries, Inc.

1. Chair called the meeting to order - antitrust reminder given and reviewed voting requirements
2. Appoint recording secretary (Jessica Ferris)
3. Minutes from November 2006 meeting (Arlington, VA) approved as presented.
4. The agenda was reviewed and approved as presented
5. Reports
 - a. “Commercial Buildings AEP Task Group” – Proposed Scope – Mahabir will be chairing. LBNL, Chris Mathis, and Tom Culp. Need more members. Peter Lyons will be added as well.
6. Unfinished Business:
 - a. Review ballot: NFRC 901 “Guidelines to Estimate Fenestration Annual Energy Performance in Single Family Residences”

8 negatives and 2 comments.

Negatives:

 - **Andersen** – questioning for AEP guidelines at all. Are they valid and useful to the consumer? Question the validity of the output and question the need. There are programs out there that can do the job. These are useful so I suggest use this as a guideline for boundary conditions.
MOTION: G. Stone / T. Zaremba moved to find this negative non-persuasive as counter to specific Board direction. Motion passes by unanimous voice vote.
 - **Simonton** – leave it as it was.
MOTION: K. Nittler / G. Stone moved to find this negative non-persuasive. Motion passes by unanimous voice vote.
 - **LBNL/Roetzel/Birch Point** – Concern about the range of operating parameters and requesting example calculations. The range is too broad.
MOTION: T. Zaremba / T. Culp moved to find Roetzel & Andress, LBNL, and Birch Point heating and cooling set points negative persuasive until LBNL can provide example calculations showing impact of set point range. Motion passes: 15-11-2.



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- **BBS** – Only have reference house for new construction, not existing construction.
MOTION: G. Stone / K. Nittler moved to find BBS negative persuasive and adopt proposed changes for items #2 & 6. Motion passes: 16-8.
- **Pilkington** – Change some wording (1 & 2)
MOTION: K. Nittler / G. Stone moved to find #1 & #2 negative non-persuasive and to adopt Darrell Smith’s language. Motion passes: 24-1.
- **Pilkington - #3** “.....and fenestration costs”
MOTION: K. Nittler / R. Temple moved to find this negative non-persuasive. Motion passes: 16-1.
- **Simonton - #1 and Roetzel & Andress - #1** – Don’t use source energy
MOTION: T. Zaremba / C. Anderson moved to find negatives relative to changing cost to source energy persuasive and restore original language. Motion fails: 9-17.
MOTION: G. Stone / R. Temple moved to find this negative non-persuasive. Motion passes by unanimous voice vote.
- **BirchPoint - #1 and Roetzel & Andress - #2** – User specific home not reference home.
MOTION: T. Zaremba / T. Culp moved to find negatives regarding fenestration orientation regarding the reference design persuasive. Motion fails: 9-20.
MOTION: K. Nittler / R. Temple moved to find BirchPoint and Roetzel Negative Non-persuasive. Motion passes: 20-9.
- **Roetzel & Andress** - negative withdrawn
- **BBS #1**
MOTION: G. Stone / G. Curtis moved to find this negative persuasive. Motion passes by unanimous voice vote.
- **BBS #3** – regarding utility costs
MOTION: G. Stone / R. Temple moved to find this negative persuasive. Motion passes by unanimous voice vote.
- **BBS #4** – in the results section – insert language
MOTION: G. Stone / R. Temple moved to find this negative persuasive. Motion passes by unanimous voice vote.
- **BBS #5** – results section – adding language
MOTION: G. Stone / R. Temple moved to find this negative persuasive as amended “as” instead of “at”. Motion passes by unanimous voice vote.
- **Cardinal Glass #1** – Infiltration
MOTION: J. Larsen / K. Nittler moved to find this negative persuasive; use sla 0.00036 or 0.000036 (T. Culp to verify correct “sla value”). Motion passes by unanimous voice vote.



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- **Cardinal Glass #2** – Interior Shade Scalars
MOTION: J. Larsen / G. Curtis moved to find this negative persuasive; define open weave light curtain as our interior shade device and our usage patterns.
Motion passes: 18-0
- **Cardinal #3,4, & 5** – withdrawn
- **Cardinal Glass #6** – HVAC System Sizing
MOTION: J. Larsen / C. Mathis moved to find this negative persuasive as amended to set safety factor AC size @ 1. Motion passes by voice vote with 1 negative.
- **Cardinal Glass #7 and 8** – negative withdrawn
- **Pella** – comments were addressed

There will be new ballot again.

7. Meeting adjourned @ 6:15 PM