

**MN Rule 1323 Advisory Committee
Commercial Energy Code
Meeting Notes No. 5**

Meeting Date: February 28, 2012

Advisory Committee Members Present:

Name	Present	Absent
Scott Nelson – Chair (DLI)	X	
Don Sivigny – Co-Chair (DLI)	X	
Alison Lindburg – Fresh Energy	X	
Bruce Nelson – Dept. of Commerce	X	
Clark Kube - AMBO	X	
Dave Bryan - AIA	X	
Eric Boyd – Dept. of Commerce (Alt. for Bruce Nelson)		X
Mumtaz Anwar - AMBO	X	
Steve Kismohr - MEEA	X	
John Smith - BOMA	X	
Les Blackwell – MAPMO	X	
Barry Riven – Alt. for MAPMO	X	

Guests Present:

Name	Present	Absent
Gary Thaden – MMCA		X
Colleen Chirhart – DLI		X
Mike Fischer – PIMA (Polyisocyanurate Insulation Manufacturers Assoc.)		X
Mark Mikkelson – Andersen Window	X	
Tim Manz		X
Jared Ellingson		X

The meeting was called to order by Scott Nelson, at 9:00 am.

APPROVAL OF MEETING NOTES

The Meeting Notes from meeting 1 were not reviewed.

OLD BUSINESS

- 1-1. Colleen Chirhart gave a presentation on the role of the Advisory Committee and how to propose changes to the published code. This included going over the dli website at www.dli.mn.gov, 3 policies, rules schedule, the proposed change form on the website, the revisors web site at www.revisor.mn.gov, general rule making information including what a SONAR (Statement of Need and Reasonableness) is, and what information is required for each SONAR that is submitted.

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- 1-2. The Minnesota Energy Code Rule 1323 now in use took effect on June 1, 2009, and is based on ASHRAE Standard 90.1-2004 with Minnesota amendments. Only the amendments are posted at the DLI website. For complete code requirements, the ASHRAE 90.1 – 2004 Standard needs to be used with the amendments.
- 1-3. The Energy Code being proposed is to use the 2012 International Energy Conservation Code (IECC) with new Minnesota amendments. This code will allow the use of ASHRAE Standard 90.1-2010, but if there are questions on that Standard, they need to be asked of ASHRAE. Questions on the IECC can be directed to the Department of Labor and Industry (DLI).
- 1-4. Don Sivigny handed out proposed Minnesota amendments that have been prepared to date for the committee members to review.
- 1-5. This committee will only be looking at the commercial provisions of the IECC (chapters beginning with “C”). The 2012 IECC book includes the ANSI/ASHRAE/IES Standard 90.1-2010, but we will not be looking at the ASHRAE section.
- 1-6. Chapter 4 of the IECC adopts ANSI/ASHRAE/IES Standard 90.1-2010. If someone wants to use the ASHRAE Standard, it must be the 2010 version. Using the current 2004 version would not be allowed.
- 1-7. When a change is being proposed, it needs to be based on the 2012 IECC publication, or the already assembled proposed MN amendments.
- 1-8. MN Rule 1300 is the Administrative Code that applies to all codes. Rule 1323 applies to commercial buildings and all buildings four stories and higher, even if they are of residential type occupancy.
- 1-9. This committee does not approve products. The code describes required performance.
- 1-10. The IECC does not address “vapor barriers/retarders.” The committee needs to verify if these are being addressed as a part of the IBC.
- 1-11. IECC discussed heating and cooling loads calculated as described in ASHRAE Standard 183. John Smith will obtain a copy of that Standard for review.
- 1-12. Chapter 5 is “Referenced Standards.” If this committee identifies other standards that should be referenced, they can be added by amendment.
- 1-13. At the next meeting on January 17, 2012, we will review chapters 1, 2, 3 and 5, plus the proposed amendments that have already been assembled, and, if there is time, the first part of

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chapter 4. If there are proposed changes, those written proposals need to be sent to Scott Nelson by no later than 4:00 pm on January 9, 2012 to be reviewed on January 17th.

- 2-1. Acronyms of organizations will be posted on the web site.
- 2-2. This meeting starts the process of reviewing Proposed Code Changes. Each proposed change will be discussed and a vote of whether to accept or not taken. The votes are for consensus only, and are not binding.
- 2-3. Proposed Code Change 1323, CE-1: Intended to correct definition caused by editing error. Vote: 10 accept, 0 reject.
- 2-4. Proposed Code Change 1323, CE-2: Add wording requiring replacement glass energy performance meet or exceed what is being replaced. Usually difficult to identify the U and SHGC values of glass, especially older glass. Description after “Exception” which states “provided the energy use of the building is not increased” already addresses the glass performance. Vote: 0 accept, 10 reject.
- 2-5. Proposed Code Change 1323, CE-3: Identifies wording in current energy code that addresses existing wall insulation requirements. Proposal conflicts with exception 3 of same section. Vote: 0 accept, 10 reject.
- 2-6. Proposed Code Change 1323, CE-4: Identifies wording in current code that addresses small openings that are cut into existing walls. The wording needs to address maintaining the integrity of air and vapor barriers, and needs to be coordinated with requirements of exception 3. In concept, felt to be a good item but needs some rewording. Vote: 1 accept, 9 reject. Action: Rework and resubmit.
- 2-7. Proposed Code Change 1323, CE-5: Adds temperature at which insulation materials are to be rated. After this proposal was submitted it was found that IECC C303.1.4 addresses the temperature requirements. This proposal was withdrawn.
- 2-8. Proposed Code Change 1323, CE-6: Proposes additional information on location of air barrier be provided with documents. Recommended that the following wording be considered for C103.2: “delineating the air barrier and showing continuity between roof, wall, foundation and around frames and sleeves at openings.” Tabled for now – a subcommittee will work on.
1/31/2012: Revised wording reviewed. The provisions of the CE were felt to be acceptable. Vote: 0 accept, 8 reject because it affects 1323.0100 wording. DLI will review how to incorporate the proposed wording into that section. **February 28, 2011: Vote: 0 Accept, 8 Reject.**

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- 2-9. Proposed Code Change 1323, CE-7: Proposed additional wording on vapor barrier requirements. After review, the concern about the vapor barrier is already covered in other sections of the code. Vote: 0 accept, 10 reject.
- 2-10. Proposed Code Change 1323, CE-8: Proposed language to identify additional causes of air infiltration. Vote: 10 accept, 0 reject.
- 2-11. Proposed Code Change 1323, CE-9: Identifies additional space temperature settings. Concern was that there was no clear method of approving alternate space temperatures. Item will add the wording at the end “as approved by Authority Having Jurisdiction (AHJ)”. Vote based on revised wording: 10 accept, 0 reject. Item will be revised. **February 28, 2011: Because of recommended new wording, CE-9 was voted on with 0 accept, 8 reject. CE-9a with rebvised wording was presented. Vote: 8 accept, 0 reject.**
- 2-12. Proposed Code Change 1323, CE-10: Adds air barrier to definition of Building Thermal Envelope. The word at the end of the sentence is to read “unconditioned” (typo). Discussion of the air barrier in the assembly being addressed elsewhere in the code. Vote based on corrected wording: 8 accept, 2 reject. January 31, 2012: CE-10 saved with friendly amendment (changed conditioned to Unconditioned).
- 2-13. Proposed Code Change 1323, CE-11: Ammends ASHRAE 90.1 requirements. This item identifies that there are be different requirements of the 2012 IECC and the ASHRAE 90.1-2010, which may have unintended results as both are acceptable method of complying with the code. A subcommittee will review the differences.
January 31, 2012: After further review, a vote was taken. 0 accept, 8 reject.
- 2-14. Proposed Code Change 1323, CE-12: Identifies reroofing exception. After discussion, it was identified that deleting the text will eliminate the requirement to insulate existing roofs/cavities, which was not the desired result. Exception 5 is to remain as is, and exception 6 added (which requires renumbering C101.4.3 exceptions 6 – 8) as follows: “6. Reroofing for roofs not covered by section C402.2.1.2.” This proposal is connected to CE-14, which added C402.2.1.2. Vote: 8 accept, 2 reject.
- 2-15. Proposed Code Change 1323, CE-13: Proposes requirements for low pitch roofs. Words in last sentence of exception “permitted to be” will be removed to provide more clear wording. Vote based on revised wording: 10 accept, 0 reject. January 31, 2012: CE-13 saved with friendly amendment (changed the words “be permitted” to “shall” in exception).
- 2-16. Proposed Code Change 1323, CE-14: Provides a definition of roof replacement. Vote: 10 accept, 0 reject.
- 3.1 Based on review of the IECC document, there are several errata that have been noted. Based on comments by ICC, several of the errata items identified in the IECC book first edition have

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apparently been corrected in the second edition. However, there is some concern that this is not truly the case. John Smith will order the second edition for use as a reference when dealing with errata issues. Unless it is known for sure that the errata have been corrected in newer versions of the IECC 2012, they will be written up as amendments.

- 3.2 Proposed Code Change 1323, CE-11a: C401.3.1 proposes wording that already exists in the current Energy Code for commercial parking facilities. One concern is allowing “environmental air” to be used to heat these facilities. Need to be more clear in what “environmental air” includes, as we do not want exhaust such as toiler and locker room exhausts to be used.
Further review is required to identify a method of identifying mandatory requirements, whether using IECC 2012 or ASHRAE 90.1-2010. The commercial parking facilities requirements may not be appropriate to located under C401.3, which is Mandatory Requirements.
Referencing commissioning as being required in this section is acceptable, as it is agreed that commissioning should be performed. The exact requirements of commissioning are described later in the IECC, and will be reviewed in the future.
This item was tabled for further review. February 14, 2012: Vote was taken on CE-11, CE-11a and CE-11b. Vote: 0 accept, 8 reject. CE-11c was discussed. A friendly amendment needs to be added that states “Pursuant to 216c.20 subpart 3.” Vote: 8 accept with amendment, 0 reject.
- 3.3 Proposed Code Change 1323, CE-15: Skylight U value: After review, this proposal was withdrawn because the IECC skylight “U” values are not much different that current requirements.
- 3.4 Proposed Code Change 1323, CE-16: C402.4.1.1-3: Change “C404.2.8” to “C402.4.8” and delete exception. This will be reworked and resubmitted as CE-16a.
- 3.5 Proposed Code Change 1323, CE-17: Corrects errata. IECC states that it is corrected in newer version. Vote was taken: 8 accept, 0 reject. Note that this is the same as CE-20, which was withdrawn.
- 3.6 Proposed Code Change 1323, CE-18: Corrects errata. Vote: 8 accept, 0 reject.
- 3.7 Proposed Code Change 1323, CE-19: Corrects errata. Vote: 8 accept, 0 reject.
- 3.8 Proposed Code Change 1323, CE-20: Same as CE-17. Withdrawn.
- 3.9 Proposed Code Change 1323, CE-21: Revises to read the same as the current Energy Code for exhaust and relief dampers. Vote: 8 yes, 0 no.
- 3.10 Proposed Code Change 1323, CE-22: Specify minimum vestibule depth to match current code requirements and ASHRAE 90.1-2010. Vote: 7 accept, 0 reject, 1 abstain.

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- 3.11 Proposed Code Change 1323, CE-23: Revise awkward wording to make more readable. Vote: 8 accept, 0 reject.
- 3.12 Proposed Code Change 1323, CE-24: Revises what appears to be an errata in the required EER. IECC claims that it is not errata. After discussion, it was decided that it is not a significant difference (IECC 12.0 versus ASHRAE 12.2), and that manufacturers should be able to be compliant with either. Withdrawn.
- 3.13 Proposed Code Change 1323, CE-25: Revises what appears to be an errata. IECC identifies IEER of 14.0, while ASHRAE identifies it as IEER of 11.8. It is felt that this errata does need to be changed, as the IECC value may not be achievable. Wording should read as “air cooled” rather than “water cooled”. Vote: With wording revision, 8 accept, 0 reject.
- 3.14 Proposed Code Change 1323, CE-26: Duct and plenum insulation and sealing: Several recommendation were made on wording to clarify some items. It will be reworked. **February 28, 2012: Vote: 0 Accept 8 Reject.**
- 3.15 Proposed Code Change 1323, CE-27: Piping insulation: Several recommendation were made on wording to clarify some items. It will be reworked. **February 28, 2012: Vote: 0 Accept 8 Reject**
- 3.16 Proposed Code Change 1323, CE-28: Adds definition of “continuous insulation.” Vote: 8 accept, 0 reject.
- 3.17 Proposed Code Change 1323, CE-29: Wording will be revised and resubmitted as CE-29a. 2/14/2012: Vote was taken on CE-29: Vote: 0 accept, 8 reject. CE-29a was presented. The subparagraph number “C402.1.3” needs to be included with the text. Need a title for the paragraph. Also discussion on how to reference ASHRAE 90.1. Appendix A. Proposed change was rejected and will be reworked.
- 3.18 Proposed Code Change 1323, CE-30: Adds additional requirements for air sealing details. Vote: 8 accept, 0 reject.
- 3.19 Proposed Code Change 1323, CE-31: Mass insulation: Withdrawn – does not apply to zones 6 and 7.
- 4.1 Proposed Code Change CE-16a: This is a rework of CE-16. A vote was taken on CE-16. Vote: 0 accept, 6 reject, 1 abstain. CE-16a was then discussed. Vote: 7 accept, 0 reject.
- 4.2 Proposed Code Change CE-32: Valving with heat pumps. Vote: 8 accept. 0 reject.

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- 4.3 Proposed Code Change CE-33: Stairway and shaft vents: Remove “interlocked”, add “or” in two locations. Will be reworked and resubmitted. **February 28, 2012: Replaced with CE-33a. Vote on CE-33: Accept: 0. Reject: 8**
- 4.4 Proposed Code Change CE- 34: First paragraph acceptable, except add quotes to ASHRAE Standard title. Revise exception “a” and make it C403.2.2. Vote: 8 accept, 0 reject.
- 4.5 Proposed Code Change CE- 35: Add variable refrigerant flow efficiency tables. Vote: 8 accept, 0 reject.
- 4.6 Proposed Code Change CE- 36: Add variable refrigerant flow efficiency table. Vote: 8 accept, 0 reject.
- 4.7 Proposed Code Change CE- 37: Add computer equipment efficiency table. Vote: 8 accept, 0 reject.
- 4.8 For Proposed Code Changes CE-35, 36, and 37, a change will be required in C403.2.3 to incorporate tables. John Smith will submit this.
- 4.9 Proposed Code Change CE-38: Deadband setting: Vote: 3 accept, 4 reject. Will be reworked and resubmitted.
- 4.10 Proposed Code Change CE-39: Thermostat setback. Vote: 8 accept, 0 reject.
- 4.11 Proposed Code Change CE- 40: Damper control. Vote: 8 accept, 0 reject.
- 4.12 Proposed Code Change CE- 41: Freeze protection: Vote: 7 accept, 1 reject.
- 4.13 Proposed Code Change CE- 42: Table title correction. Vote: 8 accept, 0 reject.
- 4.14 Proposed Code Change CE- 43: Typo correction: Vote: 8 accept, 0 reject.
- 4.15 Proposed Code Change CE-44: Add additional items for allowed pressure drop. Vote: 7 accept, 0 reject, 1 abstain.
- 4.16 Proposed Code Change CE- 45: Withdrawn due to pending federal requirements.
- 4.17 Proposed Code Change CE- 46: Withdrawn.
- 4.18 Proposed Code Change CE- 47: Withdrawn.
- 4.19 Proposed Code Change CE- 48: May be similar to IMC requirements. This will be brought up at IMC meeting. Tabled.

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- 4.20 Proposed Code Change CE- 49: Vote: 8 accept, 0 reject.
- 4.21 Proposed Code Change CE-50: Once through cooling. Vote: 3 accept, 5 reject. Rejected because requirements are covered by DNR requirements.
- 4.22 Proposed Code Change CE- 51: Parking lot lighting. 3 accept, 1 reject, 1 abstain. Passed.
- 4.23 Proposed Code Change CE-52: Need to coordinate with other proposals. Delete references to ASHRAE. Delete C401.3.5.1.3.3 Energy saving rating. Will be reworked. **February 28, 2012: Vote: 0 Accept, 8 Reject.**
- 4.24 Proposed Code Change CE-53: Minn Rules Chapter 1325 will be removed. Look at adding OG-300. Will be reworked.
- 4.25 Poly film may need to be added to C402.4.1.2.1, list of materials.

NEW BUSINESS

- 5.1 There was some discussion of how to show compliance with the energy code for new buildings. In the past, ComCheck has been used (although it was not usable for the current energy code). The Department of Energy has made it known that they will no longer be modifying ComCheck based on State energy requirements. Possibly a spreadsheet could be developed as a form to show compliance with the energy code, but this is beyond the scope of this committee.
- 5.2 Proposed Code Change CE-6a: Friendly change of wording to read "...roof, wall, foundation, around frames, and sleeves and other similar openings." Vote: 8 Accept, 0 Reject.
- 5.3 Proposed Code Change CE-9a: Revised wording. Vote: 8 Accept, 0 Reject.
- 5.4 Proposed Code Change CE-26a: Revised wording. Vote: 0 Accept, 8 Reject.
- 5.5 Proposed Code Change CE-26b: Revised wording. Vote: 0 Accept, 8 Reject.
- 5.6 Proposed Code Change CE-26c: Revised wording. Vote: 8 Accept, 0 Reject.
- 5.7 Proposed Code Change CE-27: Pipe insulation. Vote: 0 Accept, 8 Reject.
- 5.8 Proposed Code Change CE-27a: Revised wording. Friendly amendment: Paragraph "a", delete "that can cause degradation of the material." Vote: 8 Accept, 0 Reject.

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- 5.9 Proposed Code Change CE-29b: Revised wording. Vote: 0 Accept, 8 Reject.
- 5.10 Proposed Code Change CE-29c: Revised wording. Vote: 8 Accept, 0 Reject.
- 5.11 Proposed Code Change CE-33a: Stairway and shaft vents: Revise wording was presented. Vote: 8 Accept, 0 Reject.
- 5.12 Proposed Code Change CE-34a: Friendly amendment to add parenthesis around title of standard. Vote: 8 Accept, 0 Reject.
- 5.13 Proposed Code Change CE-38a: Set point overlap restriction. Friendly amendment to strike out words in parenthesis starting with “such as...”. Vote: 8 Accept, 0 Reject.
- 5.14 Proposed Code Change CE-48: Was reviewed with mechanical committee. Add word “energy” to recovery systems. Vote: 8 Accept, 0 Reject.
- 5.15 Proposed Code Change CE-52a: Needs to be consistent with 1300 for temporary structures. Vote: 8 Accept, 0 Reject.
- 5.16 Proposed Code Change CE-53a: Solar collectors: There was a concerns expressed over the appropriateness of this change. Vote: 8 Accept, 1 Reject.
- 5.17 Proposed Code Change CE-54: Change “registered” to “licensed” to be consistent with Board of Registration definitions. Vote: 8 Accept, 0 Reject.
- 5.18 Proposed Code Change CE-55: Equipment sizing: Vote: 8 Accept, 0 Reject.
- 5.19 Proposed Code Change CE-56: There was much discussion on this item, and if the requested change is appropriate. Not sure how the infiltration numbers were arrived at – through testing, or it looked like it would save energy. Vote: 3 Accept, 5 Reject.
- 5.20 Proposed Code Change CE-57: Dampers. Vote: 8 Accept, 0 Reject.
- 5.21 Proposed Code Change CE-58: Friendly rewording to read “Zones with constant loads shall be designed for the fully reset supply temperature.” Vote: 8 Accept, 0 Reject.
- 5.22 Proposed Code Change CE-59: DLI to review if reference to Department of Health is necessary. Vote: 8 Accept, 0 Reject.
- 5.23 Proposed Code Change CE-60: Delete “proper” from last sentence. Vote: 8 Accept, 0 Reject.
- 5.24 Proposed Code Change CE-61: Air system balancing. Vote: 8 Accept, 0 Reject.

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- 5.25 Proposed Code Change CE-62: Revise wording “4. Pipes that are externally heated, including heat traced or impendence heated.” Vote: 8 Accept, 0 Reject.

ONGOING INFORMATION

- 5.1 None

STATUS OF PROPOSED CODE CHANGES THAT HAVE BEEN REVIEWED

- 1323, CE-1: Accepted.
1323, CE-2: Rejected.
1323, CE-3: Rejected.
1323, CE-4: Rejected. To be reworked by John Smith and resubmitted.
1323, CE-5: Withdrawn.
1323, CE-6: Tabled. Subcommittee headed by David Bryan will work on. **February 28, 2012: Reject.**
1323, CE-6a: February 28, 2012: Friendly revision of words. Accept.
1323, CE-7: Rejected.
1323, CE-8: Accepted.
1323, CE-9: Vote on February 28, 2012 to Reject CE-9.
1323, CE-9a: Vote on February 28, 2012 to Accept.
1323, CE-10: Accepted with corrected wording. Bruce Nelson will correct and resubmit.
1323, CE-11: Tabled. Subcommittee of John Smith, David Bryan and Alison Lindberg will work on comparing IECC and ASHRAE requirements. 1/31/2012: Rejected.
1323, CE-11a: Tabled for further review. 2/14/12: Rejected.
1323, CE-11b: Rejected.
1323, CE-11c: Accepted. A friendly amendment needs to be added that states “Pursuant to 216c.20 subpart 3.”
1323, CE-12: Conditionally accepted. To be reworked by Mike Fischer and resubmitted.
1323, CE-13: Accepted based on proposed revised wording. To be reworked by Mike Fischer and resubmitted.
1323, CE-14: Accepted.
1323, CE-15: Withdrawn.
1323, CE-16: Will be revised and resubmitted as CE-16a. 2/14/2012: CE-16 Rejected.
1323, CE-16a: Accepted.
1323, CE-17: Accepted.
1323, CE-18: Accepted.
1323, CE-19: Accepted.
1323, CE-20: Withdrawn. Same as CE-17.
1323, CE-21: Accepted.
1323, CE-22: Accepted.
1323, CE-23: Accepted.
1323, CE-24: Withdrawn.
1323, CE-25: Accepted.

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- 1323, CE-26: **February 28, 2012: Reject.**
- 1323, CE-26a: February 28, 2012: Reject.**
- 1323, CE-26b: February 28, 2012: Reject.**
- 1323, CE-26c: February 28, 2012: Accept.**
- 1323, CE-27: **February 28, 2012: Reject.**
- 1312, CE-27a: Friendly amendment. Accept.**
- 1323, CE-28: Accepted.
- 1323, CE-29: Will be revised and resubmitted as CE-29a. 2/14/2012: CE-29 Rejected.
- 1323, CE-29a: Rejected – will be reworked.
- 1323, CE-29b: February 28, 2012: Reject.**
- 1323, CE-29c: February 28, 2012: Accept.**
- 1323, CE-30: Accepted.
- 1323, CE-31: Withdrawn.
- 1323, CE-32: Accept.
- 1323, CE-33: Rework. **February 28, 2012: Reject.**
- 1323, CE-33a: Accept.**
- 1323, CE-34: Friendly changes. **2/28 Reject.**
- 1323, CE-34a: February 28, 2012: Friendly amendment. Accept.**
- 1323, CE-35: Accept.
- 1323, CE-36: Accept.
- 1323, CE-37: Accept.
- 1323, CE-38: Rework. **February 28, 2012: Reject.**
- 1323, CE-38a: Accept.**
- 1323, CE-39: Accept.
- 1323, CE-40: Accept.
- 1323, CE-41: Accept.
- 1323, CE-42: Accept.
- 1323, CE-43: Accept.
- 1323, CE-44: Accept.
- 1323, CE-45: Withdrawn.
- 1323, CE-46: Withdrawn.
- 1323, CE-47: Withdrawn.
- 1323, CE-48: **February 28, 2012: Accept.**
- 1323, CE-49: Accept.
- 1323, CE-50: Rejected.
- 1323, CE-51: Accept.
- 1323, CE-52: **February 28, 2012: Reject.**
- 1323, CE-52a: February 28, 2012: Accept.**
- 1323, CE-53: **February 28, 2012: Reject.**
- 1323, CE-53a: February 28, 2012: Accept.**
- 1323, CE-54: February 28, 2012: Accept.**
- 1323, CE-55: February 28, 2012: Accept.**
- 1323, CE-56: February 28, 2012: Reject.**

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**1323, CE-57: February 28, 2012: Accept.
1323, CE-58: February 28, 2012: Friendly wording. Accept.
1323, CE-59: February 28, 2012: Accept.
1323, CE-60: February 12, 2012: Accept.
1323, CE-61: February 12, 2012: Accept.
1323, CE-62: February 28, 2012: Friendly rewording. Accept.**

ITEMS TO REVIEW WITH OTHER GROUPS

1-1. None

Adjourn. The meeting adjourned at 12:50 p.m.

If you cannot make a future meeting and know it, please notify Scott Nelson so that he can take this into account when developing the meeting agenda.

Future meetings will be held at Department of Labor and Industry Building located at 443 Lafayette Road North, St. Paul, MN. Future meeting dates:

2/28/2012 NO FUTHER MEETING PLANNED