I. Welcome and introductions – Charlie Niebling introduced the group on the call. He said that the core agenda item for the meeting is to review the draft work of the Technical Committee relative to the proposed amendments to the ISO 17225-4 standard.

II. Review and discussion of proposed deviations to IS 17225-4

a. Explanation of proposed changes from technical subcommittee – The group worked from two documents: draft 17225-4 and suggested deviations for ISO 17225-4 which Charlie N shared on his screen through JoinMe. Jean Walsh pulled all the recommended changes to the ISO standard from the technical committee work. Charlie N went through the recommended changes item by item to explain them. The technical committee had consensus agreement on a number of the requested changes and did not agree to a number of others requested by members.

There were a few questions about the proposed changes from participants on the call.

Jim Dooley said that the Technical Committee got to consensus through Charlie N’s strong leadership.
b. **Actual recommended changes to the Standard 17225-4** – Charlie N brought up the redlined 17225-4 document for the group to see the proposed changes in the actual Standard document. Jean Walsh described the redlining process to show the changes and the final proposal for change will include the redlining so people can understand the changes (red underline for new language and cross out for removal).

Charlie N walked through all the changes in the redlined ISO 17225-4. In the size table (Table 1) a restructuring has led to 5 categories from the original 4. Parenthetical notations for English units is being added (Jean needs to add an English equivalent in a few places where they are still missing). Scott Sanford asked if field trials would be done to test these size classes out to make sure they make sense in the real world. Adam Sherman said that many field trials on chip sizing through sieves have been done already by others. He thinks we should do an analysis of these studies to confirm that the products being produced in the field today fit well in the size categories in the proposed Standard changes.

Bede Wellford asked whether this set of proposed changes is consistent with the CSA (Canadian Standards Association) standard? Jean Walsh confirmed that CSA has already adopted ISO 17225 as is.

The discussions spent considerable time in Table 1 and Table 2 changes in the document where the sizing classification (Table 1) and all other classifications including moisture content and sizing (Table 2) are located.

Adam Sherman asked about the sourcing information at the top of Table 2. There are limitations on changes by ISO as to what can be done in the sourcing section, according to Charlie N, because it requires opening up ISO 17225-1 or other reference standards to do it because the terms are defined there. The group decided to largely leave it alone. Jim Dooley also mentioned that the group had learned that the ISO 17225-1 is up for review at 5 years soon and that provides an opportunity for further changes.

Adam S suggested removing the deletion of logging residues from A1 category. The group agreed to remove the deletion in the next draft.

Scott Sanford asked about why we have an M13 moisture content category rather than M12 if some boiler manufacturers are specifying fuels dried to less than or equal to 12% in their marketing materials. Kaushlendra Singh suggested that this is because of the nuance of testing for this moisture content which would allow for variation. Discussion ensued about whether to keep at M13 or M12. The consensus was to leave it at M13 for the next level of review by stakeholders in the process.

Based on the recommendation by Kaushlendra to clarify the moisture content type - all is by wet basis. All agreed.
Adam suggested adding an M45 category – later changed to M50 by the group consensus - (less than or equal to) category for the A category. All agreed to the change. The B category will be M35+.

Charlie N confirmed that the group did not change any of the mineral content categories.

Charlie N reminded the group that there will be a guidance document that will accompany this document to better explain it. It was suggested that the bulk density should reference the ASABE standard for bulk density methodology. Jean said it could be mentioned up front in the normative references.

Discussion ensued about the confusion that may come from Ash section “A1.0” vs. the A 1 section. There was no agreement to change anything there for the time being.

III. **ANSI/ASABE process for proposing, seeking stakeholder input, and voting on deviations to ISO standards** - Jean explained the process from here on out. She said that ISO needs to formally approve the process as does ANSI and so the next few months will be refinement of document during that period until we get official go ahead from ISO for public comment period. Only then will the Advisory Committee have a formal ballot vote before it goes out to stakeholders.

Charlie N suggested that we send a broadcast e-mail to the stakeholder list of 400 + to let them know of the process and invite those who wish to be part of the voting process opportunity a formal request to be a voting member. Jean wondered if doing it that way might not open up the process too much since the target number was 30+ for voting. Charlie N suggested that the project team review the list of those who have shown interest and make sure there is acceptable representation from the full range of subsectors. It was agreed that the project team will work on this with further recommendations on additions to the voting body.

IV. **Outreach and communications to stakeholders** – Charlie N said that presentations on the process will occur on April 11 at the International Biomass Conference in Minnesota and April 25-26 at the Northeast Heat Conference in Vermont. These will be structured in a way to enable stakeholder feedback.

V. **Other business/next conference call** - The next call of the Advisory Committee will be in early summer with a date to be set later depending on the need.

- Notes will be sent out and the next version of the Standard revision will go out too.

Respectfully submitted,
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