AWEA Wind Technical Standards Committee
Draft Meeting Minutes
Thursday, November 15, 2018
2:00 PM – 3:30 PM, Eastern

AGENDA ITEMS
1. Welcome
2. Roll Call
3. Review and Approval Agenda
4. Approval of previous committee minutes
5. AWEA WSC Action Items
   a. Ballot Review
6. AWEA WSC Standard Development Action Items
   a. ANSI Standards Development (regular process)
      i. Review status of standards under development
         1. TR-1 – Brian Kramak
         2. Offshore Subcommittee – Walt Musial
         3. Structure Subcommittee – Kirk Morgan
      ii. Discussion and Action Items
         1. IEC 61400-1 Edition 1 – Dan Brake
         2. IEC 61400-24 – Tom Bendlak
         3. Others
      iii. Parking Lot
         1.
   b. New Standard Proposals
      i. Discussion and Action Items
7. Non-AWEA WSC Initiatives
   i. Improving coordination with other Standard Developing Bodies
   ii. ASME A17.8 – Wind Turbine Elevator
   iii. ASME drone inspection standard
8. Meeting Schedule
9. Proposed 2019 Meeting Schedule
   b. Teleconference: August 20, 2019
   c. Teleconference: November 13, 2019 - Teleconference
10. Additional Items
11. Adjourn

MINUTES
• Roll Call
  o The meeting met quorum, 20 out of 35 (57%) voting companies attended, and this group requires 51%.
• Approval of previous committee minutes
  o Motion to Vote: Warren Bollmeier, WSB-Hawaii, Motioned; Trudy Forsyth, Forsyth - Wind Advisors Team 2nd the motion.
Joseph Spossey, Intertek, noted that Intertek did attend the August meeting, remove Intertek from the list of companies that did not attend.

- Any objections? No

- Meeting minutes approved as amended. [Click here](#) to download.

**AWEA WSC Action Items**

- **Ballot Review**
  - Since August, the following ballots have been posted:
    - Approval of WTSC membership application for the Hartford Steam Boiler Inspection and Insurance Co., [click here](#) to view the ballot.
    - Approval of May meeting minutes passed, [click here](#) to view the ballot.
    - Approval of February 2019 meeting date, [click here](#) to view the ballot.
    - Approval of 61400-1 Subcommittee and Scope with Dan Brake as the Chair, [click here](#) to view the ballot.

**AWEA WSC Standard Development Action Items**

- **ANSI Standards Development (regular process)**
  - Review status of standards under development
    - **TR-1** – Brian Kramak, AWS Truepower
      Brian noted the group hasn’t met in a few months, they will get back on track end of the year/January. The group is working to determine next steps, final details and editing, and plan to have something ready by WINDPOWER 2019. Brian also noted they are looking for someone to step up as chair of the subcommittee. Brian asked if the WTSC agrees with changing leadership since it’s so close to the end?
      - Ron Grife, Leeward Renewable Energy, noted if Brian can’t support the subcommittee then the WTSC will support the change.
      - Brian noted that he has volunteers on the committee that can step up, they are checking in with their companies to see if it will work. Brian will get the subcommittee to approve and then WTSC approve by ballot.

- **Offshore Subcommittee** – Walt Musial, NREL
  Walt noted the group met October 15 at the AWEA Offshore WINDPOWER Conference, they met as a full group and then the working groups met to work on the draft documents. The Working Groups meet regularly and are making great progress with a possible completion by end of 2020. The next meeting is April 8 in New York City before International Partnering Forum.

- **Structure Subcommittee** – Kirk Morgan
  Kirk noted they have not made much progress. The group is responding to the scope comments from the ballot. They will have a kick-off meeting soon to establish core working group and broader public appeal. Kirk will be looking to Ron Grife, Leeward Renewable Energy, and AWEA for guidance.
  - Ron Grife, Leeward Renewable Energy, asked if Kirk has the guidance on how to resolve comments.
Kirk noted yes, but he is stuck on Dan Brake’s comment that the committee shouldn’t exist. Kirk noted there are quite a few practitioners that do believe it should exist with siting and support structures. There are others that are looking to see completion of the first task item, recommended practice document.

Dan Brake, NextEra Energy Resources, noted there’s a chapter in 61400 on structures and asked why the WTSC isn’t just converting this over and adding US specific items. Dan noted that if the group creates something separate, we’ve bifurcated this.

Kirk noted that there is the ASCE/AWEA Recommended Practice for Large Land-based Wind Turbine Support Structures and the group needs to find a way to bridge the gap of this document and 61400-6. There are some limitations to both documents. The idea of having a national annex that covers everything appeals to Kirk, but this is a discussion for the wider group.

Kirk also noted that while there is a lot of maturity in the civil space in the US with respect to most current practitioners being able to simply switch from the RP2011 to the -6 (with US National Annex) that new entrants to wind will require some form of documentary bridge to US codes. The RP currently serves this purpose.

Dan noted he is happy to join the conversation to discuss the details further.

Warren Bollmeier, WSB-Hawaii, asked if there needs to be exceptions to 61400-6

Kirk noted yes, the European approaches to geotechnical seem to be more statistical than US methods. There is better harmony on the structural side.

Ron recommended a side meeting to discuss scope issues and that Kirk should follow up with his kick-off call as planned. If the group must generalize the scope, so be it. He asked Kirk to please follow up with Dan and others.

Discussion and Action items

- IEC 61400-1 Edition 1 – Dan Brake, NextEra Energy Resources
  - Ron Grife, Leeward Renewable Energy, noted the ballot is out for approval and the ballot has already received enough votes to pass.
  - Dan noted he asked the -1 group on the US TAG and asked them if they want to be a part of this committee, they expressed interest in helping. Dan noted he will also need guidance on asking for formal participation on the subcommittee. He noted that edition 4 has finished voting and is close to being published. US voted and commented on edition 4. Dan plans for the subcommittee to look through US comments and see if concerns were addressed to groups satisfaction.
there editions from other countries? The group will address concerns in the US specific annex. The final document with annex will be put forward through ANSI process.

- Tim, UL: annex will be the location for US differences?
- Dan: yes, I believe that’s how this works. This is the first time we’ve done this. Dan asked what others know.
- Tim Zgonena, UL, noted that UL puts the US specific items in the body of the document to make it easier to read and release a separate document to show US specific changes. Not sure if this is ANSI specific.
- Michele, Mihelic, AWEA, noted ANSI doesn’t have specific guidance on how to do it. Some organizations do an annex, others do take international standard and incorporate/modify for US.
- Dan: I like what Tim suggested, add the changes in the document and create a separate annex.

- IEC 61400-24 – Tom Bendak, Pentair
  - Ron Grife, Leeward Renewable Energy, noted that Tom has been appointed to lead this group and his process will be similar to Dan’s.
  - Michele, Mihelic, AWEA, noted that the group will determine how best to nationally adopt -24, Tom is working on development of scope and it should be ready by the February meeting. Tom will also do a call for participation.
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- Parking Lot
  - IEC 61400-26
    - Michele, Mihelic, AWEA, noted that she is waiting on TC-88

- New Standard Proposals
  - Discussion and Action Items
    - Ron Grife, Leeward Renewable Energy, asked the group to email him or AWEA if they have thoughts or ideas or bring ideas to the February meeting, the group can discuss at the February meeting.

- Non-AWEA WSC Initiatives
  - Improving coordination with other Standard Developing Bodies
  - ASME A17.8 – Wind Turbine Elevator and ASME drone inspection standard
    - Michele, Mihelic, AWEA, noted she had a meeting with Luis Pulgarin, ASME, he is coordinating ways we can work together. Michele noted that ASME is working to put together an MOU between ASME and AWEA, to ensure wind energy industry is represented well in their standards development. She noted ASME also has a standard for drone inspections and renewables are included. We may co-designate if they have something specific to wind, if not, we’ll participate on the planning group. In
regards to service lift, Michele noted the AWEA WEHSSC service lift group has met. Carisa was on the call.

- Carisa Barrett, Elevator Industry Work Preservation Fund, noted that during the call it was clear that most on the group had not read A17.8. Folks agreed to order the standard, read, and come to the next call with comments/concerns. There's another group looking to write a standard on service lifts, Carisa sent this information to Michele. Carisa noted the call was good, good discussion, most comments were about the inspection costs. She noted that this has nothing to do with the code and that she's not happy about the costs either, maybe as a group we can address this. The code is about safety.
- Ron Grife, Leeward Renewable Energy, noted that there are people on his side that are interested in participating on the drone inspection standard.
- Michele noted that ASME will send her the application to join their consensus body. ASME has a structure that each standard has as a consensus body. Michele noted that typically larger SDO’s have a consensus body per standard.
- Michele will share the application when she receives it.
- Tim Zgonena, UL, asked if there is still plans to have the code designated for small wind turbine (AWEA/UL/ANSI standard) UL 6142 turbines permitting entry. Tim noted the group discussed this at the May meeting, about co-designating this. Tim asked if there were additional discussions with the group since the May meeting.
  - Michele noted no, but she will move this forward.

**Meeting Schedule**

- **In Person Meeting:** February 25, 2019 – pre-AWEA Wind Project O&M and Safety Conference, San Diego, CA
- Ron Grife, Leeward Renewable Energy, asked if there will be a US TAG wind summit.
  - Dan Brake, NextEra Energy Resources, noted yes there will be a summit, Jeroen will send out details. The meeting will be Tuesday, 2/26 in San Diego, not at the Hotel Del Coronado.
  - Tim Zgonena, UL, asked if there will be a dial in.
  - For 2/25 mtg yes, possible yes for 2/26 TAG mtg.

- **Proposed 2019 Meeting Schedule**
  - In person Meeting: WINDPOWER 2019, Houston, TX, Monday, May 20, 2019 – tentative
  - Teleconference: Tuesday, August 20, 2019
  - Teleconference: Wednesday, November 13, 2019
    - AWEA to create a ballot for 2019 schedule.

**Additional Items**

- Adjourn

**ACTION ITEMS:**

- AWEA staff will create a ballot to approve proposed 2019 meeting schedule.
- AWEA staff to discuss working with UL on a joint standard for UL 6142.
- AWEA staff will create a ballot to approve the IEC 61400-24 scope when the scope is ready.
- AWEA staff will create a ballot to approve the new chair for TR-1 once the new chair has been nominated by the TR-1 subcommittee.

**ATTENDANCE**

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