AWEA Wind EHS Standards Committee
Meeting Minutes
Wednesday, May 16, 2018
2:00 PM - 3:30 PM, Eastern

Agenda
1. Welcome
2. Roll Call
3. AWEA WSC Action Items
   a. AWEA WSC ANSI Audit
   b. AWEA WSC Standards Development Procedures
4. AWEA WEHSSC Action Items
   a. Priorities and Goals
   b. GWO Membership Application
   c. National Adoption of EN50308 and other relevant European wind energy safety
      standards; Chair - Dan Olson, GE Renewable Energy,
   d. Service Lifts: Chair - Mike Kelley, Enel Green Power North America,
   e. Offshore Safety
5. Meeting Schedule
   a. In person Meeting Spring 2018: February 26, 2018 – San Diego, CA
   b. Teleconference: May 16, 2018
   c. In person Meeting Fall 2018: September 12, 2018 @ 9:00 a.m. – 12:00 p.m.
      (tentative) Central – Austin, TX (**please see the calendar invitation for travel
      and hotel information)
   d. Teleconference: November 8, 2018 @ 11:30 a.m. – 12:30 p.m. Eastern
6. New Items
7. Adjourn

Minutes

A quorum was not met, 15 of 37 (40%) voting companies attended. This group requires 51%.

AWEA WSC Action Items
- Audit
  - Michele Mihelic, AWEA, provided an overview of the current ANSI Audit. ANSI
    audits standards development bodies (SDBs) on a regular basis. ANSI reviews
    all steps, procedures, etc. to make sure we have followed the ANSI rules. The
    audit is for AWEA’s first standard SWT-1. Michele provided initial feedback from
    the audit process and stressed the group must 1) have quorum and people must
    participate at calls and meetings and 2) subcommittees need to keep track of
    notes, ensure meetings are open, and have open communication. Michele noted
    we do not have a date of when AWEA will receive the report, but anticipate
    September.

- Standards Development Procedures (SDP)
  - Michele Mihelic, AWEA, noted that the update to the SDP is on hold. ANSI
    requested AWEA wait to submit an updated SDP because part of the audit report
    will include recommendations for updating SDP. The current SDP is online at
    www.awea.org/standards-development.

WEHSSC Action Items
- Priorities and Goals
Current goals: National Adoption of EN50308 and other relevant European wind energy safety standards, service lifts, and offshore safety.
  o Gemma Smith, Geronimo Investment Management, opened up to the group, asking for feedback, do we need to reassess these/add to them?
  o Michele Mihelic, AWEA, noted that the group can start thinking about 2019 goals.
  o Bea Stong, BP Wind Energy, asked about A10.21, are we going to comment, how are going to work with that standard and what we are doing here?
  o Michele Mihelic, AWEA, noted that ANSI A10.21 Standard, is administered by ASEE, AWEA is a member of this committee and AWEA has worked on the standard. A10.21 was approved by ASEE standards group and is final. Michele noted that while this is a final standard, he WEHSSC can still provide comments to ASEE and the A10.21 committee. WEHSSC can also reference A10.21 and use different portions of it. Michele noted she will reach out to her counterpart at ASEE to work together on a future revision.
  o Bea Stong, BP Wind Energy, noted several new items A10.21 does not address such as repower.
  
  • GWO Membership Application
  o Gemma Smith, Geronimo Investment Management, noted that AWEA is trying to develop a way for the group to comment on this anonymously. AWEA hasn’t figured out how to do this, but once this is ready, the GWO membership application will open for comment. There is no further action on this.
  o Michele Mihelic, AWEA, noted that AWEA is working on a proposal for GWO that may change the status of this. Michele will provide an update later.
  
  • National Adoption of EN50308 and other relevant European wind energy safety standards
  o Dan Olson, GE Renewable Energy, noted that there are no updates yet. Gemma Smith, Geronimo Investment Management, asked to have one meeting completed before the next WEHSSC meeting and provide updates at the next meeting.
  
  • Service Lifts
  o Gemma Smith, Geronimo Investment Management, noted that Mike is not on the call. Gemma will work with Mike to make sure this group has one meeting completed before the next WEHSSC meeting and provide updates at the next meeting.
  
  • Offshore Safety
  o Gemma Smith, Geronimo Investment Management, noted the last time the WEHSSC met the group discussed taking this on because the WSC Offshore Wind Standards Subcommittee feels strongly this needs to be addressed soon. The Chair of the WSC Offshore Wind Standards Subcommittee is working on a proposal.
  o Michele Mihelic, AWEA, noted that the AWEA (trade association) Offshore Safety Working Group is looking to provide a guidance document that states that for offshore EHS the OSHA regulations are currently the appropriate standards with certain caveats and will determine the caveats and add exclusions. The working group is interested in having a call with Gemma Smith, Geronimo Investment Management, and Dan Olson, GE Renewable Energy, to understand the direction of WEHSSC and what the expectations are.
  o Bea Stong, BP Wind Energy, noted this is not how it works offshore necessarily. There’s a well-established process for offshore installations including safety, etc.
and asked if the AWEA offshore working group is looking at that. Bea noted that she would find it hard to believe BSEE will stray from their existing agreements.

- Michele Mihelic, AWEA, noted the current agreements do not include renewables.
- Simon Baughman, BSEE, noted that BSEE is not doing any new regulations, BSEE is attempting to use regulations that have been in place for years. Simon noted an example of the Coast Guard, unless it’s a vessel, won’t have anything to do with offshore and that BSEE is working on agreements with OSHA.
- Michele Mihelic, AWEA, noted that without a secretary of OSHA, getting new regulations approved will be hard. There is a goal to have a standard to cover this while agreements are being discussed, etc. Determine gaps and note what’s appropriate. The AWEA (trade association) Offshore Working Group is looking at other industries in the offshore space.
- Bea Stong, BP Wind Energy, noted she used to work on the national offshore... (executive), it would be good to get some presentation on this, Bea to send contacts to Michele.

- Priorities and Goals Continued
  - Gemma Smith, Geronimo Investment Management, checked back in with the group asking if there is a need for additional groups or priorities.
  - Nicole Hughes, AWS Truepower, noted that they have been in discussions with OEMs on extended life certifications for repowering, safety standards of components being used longer than intentionally intended of the life-cycle, and asked if there can be a subcommittee to focus on issues related to repowering.
  - Gemma Smith, Geronimo Investment Management, noted that the group will start to hear more and more on repowering as we move forward, we are seeing this more in the industry. In regards to extended life, Gemma noted this should probably go to the technical committee. Gemma also noted that, yes, at some point, the WEHSS should have a subcommittee on repowering, but noted that she’s not sure we need it now. This will be a discussion item for the next WEHSSC meeting.
  - Bea Stong, BP Wind Energy, noted she is going through repowering now and while there are a few minor subtleties, she noted that repowering is not all that different from construction, she found that the standards in place do cover the safety side.
  - Heather Cooke, Minnesota Power, noted that specifically what comes up a lot in the components is that it’s hard to get the recertification, what standards are there that make sure components/ maintenance are safe.
  - Bea Stong, BP Wind Energy, noted in conversations with OSHA, they have a lot of questions on confined spaces and stated she’ll keep her ear to the ground to see if more questions come up.
  - Michele Mihelic, AWEA, noted there has been an uptick in questions on confined spaces from OSHA and/or consultants that have a relationship with OSHA. In communications with a consultant that AWEA hired to address ladder issues, Michele noted that AWEA received feedback that OSHA asked about confined spaces. In addition, Michele noted that a member of AWEA hired a consultant to study confined spaces and the report identified areas as confined spaces that were not flagged before.
  - Kevin Turner, Infrastructure & Energy Alternatives, noted he is looking at confined spaces too, working with the OSHA regional office to come to an agreement, taking the opportunity to lead OSHA to where IEA wants to go, not OSHA leading.
Gemma Smith, Geronimo Investment Management, noted the new topics, repowering and confined spaces, which are good to have on the potential subcommittee list. Gemma noted that the group can check-in at the next meeting and if we have quorum at the next meeting the group can vote to move forward or keep set aside.

- Next meeting
  The next meeting will be an in-person Meeting, September 12, 2018, Austin, TX (in conjunction with AWEA Fall Committee Meetings and AWEA Resource Assessment Conference 2018). Click here to reserve your hotel.

Action Items
- AWEA staff to create an approval ballot for the meeting minutes from February and May
- AWEA staff to create an approval ballot for each of the new subcommittees:
  - Service Lift Task Force
    This task force will investigate ANSI/ASME A14.8 standard, perhaps partner with ASME.
    Chair: Mike Kelley, Enel Green Power North America
  - Wind Safety Standard Subcommittee
    This subcommittee will explore the national Adoption of EN50308 and other relevant European wind energy safety standards.
    Chair: Dan Olson, GE Renewable Energy

### Attendees

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<tr>
<th>Company</th>
<th>Name</th>
<th>Category</th>
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<tr>
<td>Acciona Energy</td>
<td>Karl Delooff</td>
<td>Owner/Operator</td>
<td>Member</td>
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<tr>
<td>Acciona Energy</td>
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<td>Matthew MacDonald</td>
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<td>AVANGRID</td>
<td>Larry Wilson</td>
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<td>AWS Truepower</td>
<td>Nicole Hughes</td>
<td>Consultants</td>
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<td>Bea Stong</td>
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<td>BSEE - Bureau of Safety &amp; Environmental Enforcement</td>
<td>Simon Baughman</td>
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<td>FieldCore</td>
<td>Grayling Vander Velde</td>
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<td>GE Renewable Energy</td>
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<td>Geronimo Investment Management</td>
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<td>Terry Pedigo</td>
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<td>Infrastructure &amp; Energy Alternatives, LLC</td>
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<td>Minnesota Power</td>
<td>Heather Cooke</td>
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<td>Nordex USA / Acciona Windpower North America</td>
<td>Curtis Neff</td>
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<td>Bryce Merrick</td>
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<td>Tuff Bucket, Inc.</td>
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<td>UWUA Power For America</td>
<td>Priscilla Peloubet, M.Ed.</td>
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<td>Wanzek Construction</td>
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