



Committee Meeting Agenda & Minutes

Codes & Standards

Committee Meeting Objective: Report, discuss, and learn about the latest updates in national codes and standards affecting the EGSA members.

Date : Monday, March 4, 2019
Location: Lost Pines Resort, Austin, TX
Time 1:00 - 5:00p.m.
Chairperson: Robert Simmons

Preparation

Following may be helpful in preparation:

- Read fall meeting minutes

Item	Description	Conclusion
<i>Welcome -Meet your 2019 Leadership Team</i>	Robert Simmons	Complete
<i>Review Committee Initiatives</i>	Robert Simmons	Complete
<i>Review Mission statement, and initiatives of the C&SS committee</i>	Robert Simmons	Complete
<i>Review and update of membership</i>	Jeff Jonas Request any information relative to changes in personnel data from attendees	Complete
<i>Meeting minutes from the Fall conference in Nashville, TN</i>	Jeff Jonas Request any amendment to minutes previously distributed and move to accept as appropriate	Motion was made and seconded to accept the fall meeting minutes as presented. Motion passed unanimously. Complete
<i>Officer update</i>	Robert Simmons	Brian Ponstein-new Board Liaison. Brad Affeldt's new responsibilities mean he is unable to continue as vice chair. Jeff Jonas will move to vice chair and we must vote on new secretary. Motion for Jeff Jonas to move from secretary to vice-chair. Seconded and pass unanimously.

<i>Presentation – Prepared for Disaster using Microgrid with CHP & District Energy</i>	Ryan Thompson, PE, CEM Assoc. Director Power Plant/Chilling Station @ UT, Austin	Good presentation. Many questions and solid interest.
<i>Working Group update-Steve Sappington, UL 2200</i>	Steve Sappington, Jeff Jonas	Steve S. gave the update. ULC6200, 1 st edition, to be released in April, 2019. ULC 2200 is in final stages of development and will be put out for vote by the STP. UL2200A is a new standard that will be for evaluation of a fire inside an enclosure to be used in conjunction with NFPA 37 less than 5 feet offset distances. UL currently forming a STP.
<i>Sound measurement best practices. Working Group update Coordinate with ANSI Standard</i>	Brian Ponstein, Jerry Lilly(ANSI working group)	Brandon Nigh gave the update. Working group has been meeting. The final details are being worked out and the release will be soon. ANSI working on the same topic but has tabled it in deference to the EGSA working group output. ANSI will likely pick up the EGSA output and make it a standard.
<i>Update Diesel fuel working group TIA Log No.: 1388, Reference: 8.3.7. (NFPA 110)</i>	Steve Sappington	Proposal was submitted to the NFPA 110 TC. Initially rejected, resubmitted on a TIA. TC voted that it was not an emergency. Appealed to NFPA standards council and sent back to the NFPA 110 committee with the request to form a working group to come up with changes to the standard. Steve S. is forming the working group and is considering bringing in experts outside the TC to develop requirements that all can parties can support. We should see some output in summer 2019'
<i>IEEE 1547- any update on Generator compliance with latest since presentation at last meeting</i>		
<i>IEEE 1547 1547.1a Standard Test Procedures for Distributed Resources IEEE 1547.3 – “Draft Guide for Monitoring Information Exchange and Control of DR Interconnected with EPS” IEEE 1547.4 – Standard for Design, Operation, and Integration of Distributed Resource Island System with Electric Power Systems.” 1547.5 IEEE 1547.6– “Draft Recommended Practice for Interconnecting</i>	Herb Daugherty: Open discussion on any changes to the 1547 series	IEEE 1547.1 is going out for ballot soon. There was a meeting in Atlanta last week. Tim Z. attended the meeting. Good support for the current standard and will be pushed for balloting. Goal is to release by the end of the year or early 2020'. IEEE SA members can view document.

<p><i>Distributed Resources with Electric Power Systems Distribution Secondary Networks.”</i> <i>IEEE 1547.7</i> <i>IEEE 1547.8 – Extended Use of IEEE 1547 Voltage and Frequency Ride through Requirements</i></p>		
<p><i>ISO Tech Committee TC 70: Internal Combustion Engines</i> <i>ISO 8528-1(2018): Reciprocating internal combustion engine driven alternating current generating sets - Part 1: Application, ratings and performance</i> <i>ISO 8528-2: Part 2 Engines (2018)</i> <i>ISO 8528-3: Part 3 Alternating Current generators (2005)</i> <i>ISO 8528-4: Part 4 Control gear and switchgear(2005)</i> <i>ISO 8528-5: Part 5 Generator Sets (2013).</i> <i>ISO 8528-6 to -13</i> <i>ISO 15619(2013): Reciprocating Internal combustion engines – Measurement procedure for exhaust silencers – Sound power level of exhaust noise and insertion loss using sound pressure level and power loss ratio</i></p>	<p>Brandon Nigh</p> <p>General report and discussion of any updates to Standards under TC70</p>	<p>Part -3, -5 and -10 is approved and scheduled to be revised. Brandon to send a complete update schedule/ affected standards. Emissions standards are being reviewed. See attached document.</p> <p>Let Brandon know if any updates are required and he will bring them to the committee.</p>
<p><i>IBC, ASCE, BSSC, Seismic certification Working Group</i></p>	<p>Robert Simmons</p> <p>Report on update in the ASCE 7-16. What can EGSA members do to affect the process. Progress on update and conversion to code language of EGSA best practice for seismic certification.</p>	<p>Robert Simmons attended the July and October meeting of ASCE TS8 2022 cycle representing EGSA. ASCE TS8 writes the ASCE -7 Standard which provides wind and seismic requirements for Gensets and components. IBC 2018 is the current edition of International Building Code. Check local jurisdictions for adoption. Most are still on the 2012 or 2015 edition. But jurisdictions will begin to adopt the latest. IBC references the ASCE -7 for the Wind and Seismic requirements. ASCE is on a 6 year cycle (2005, 2010, 2016, and 2022). The IBC 2012 and 2015 both reference ASCE 7-10. The seismic requirements are essentially the same in ASCE 7-05 and ASCE 7-10. Thus the seismic requirements for EGSA member products are the same. The ASCE 7-16 made some changes that affect the applied load and anchorage requirements. The IBC 2018 adopted ASCE 7-16. So if your project is in a jurisdiction that has adopted IBC 2018, make sure you use ASCE 7-16. The ASCE 7-22 cycle will have major</p>

		changes to the formula used to calculate the seismic load. No affect for now, but we will keep members posted. Note, now is the time to make any changes to the ASCE. Please feel free to submit any comments or proposals on the current ASCE 7-16 to Robert Simmons, "res@seismic-source.com" for submittal in the 2022 cycle.
<i>UL2201</i> (Portable Generators)	Jeff Jonas	No new information.
<i>UL1008</i> (Transfer Switches)	Herb Daugherty	No recent meeting. Herb D. voted for the latest revisions. No major changes. They are working on arc flash requirements.
<i>UL1008M</i> (Transfer Switch equipment, meter mounted)	Steve Sappington	No new information.
<i>UL/ULC 6200</i> (Standard for Controllers for Use in Power Production)	Jeff Jonas	Update on 1st revision of standard after the comments are addressed.
<i>UL 1778</i> (Uninterruptible Power Systems 2 nd Edition)	Jeff Jonas	Need volunteer for liaison position. Group felt it was useful to keep it on our list of supported standards.
<i>NFPA 110</i> (Standard for Emergency and Standby Power Systems) <i>NFPA 111</i> (Standard on Stored Electrical Energy Emergency and Standby Power Systems)	Herb Daugherty, James Hunt	NFPA110 1 st draft meeting in September. Herb D. is waiting on appointment to 99, 110, and 111 will be decided in April at the NFPA TC.
<i>NFPA 99</i> (Health Care facilities Code)	Herb Daugherty Ron Schroeder	NFPA 99 2 nd draft meeting in Indianapolis in June 24-27 th , 2019,
<i>NFPA Correlating Committee</i>	Ron Schroeder	Nothing new.
<i>IAEI</i> (International Association of Electrical Inspectors)	Ron Schroeder	No codes or standards. IAEI uses the NEC. Chapter meetings are an outlet for manufacturers to share information about their product. They are open to a presentation at their local chapter meetings.
<i>NFPA 70 (National Electrical Code) Panel 13</i>	Herb Daugherty, Jeff Jonas	Update on 2 nd draft meeting in October.
<i>NFPA 37</i> (Standard for the Installation and Use of Stationary Combustion Engines and Gas Turbines)	Keith Page, Herb Daugherty	1 st draft meeting to be at the end of April in Savannah, GA. 2021 version. PI for placement related to CO will be reviewed.
<i>IEEE 3000 Series (Color Books)</i>	Herb Daugherty	No discussion.
<i>NECA: National Electrical</i>	New Standard out - any	Steve S. mentioned that we should

<i>Contractors Association</i>	volunteers for liaison?	let them know what EGSA has to offer.
PGMA Portable Generator Manufacturers Association	Jeff Jonas	No new information.
<i>Gulf Region/Middle East Activity</i>	Need volunteer	Was championed by Brad Affeldt. Robert asked if we should keep or remove. The group decided to remove.
<i>Any Important News on Major EGSA Initiatives from other Committees</i>	Robert Simmons	Steve S. mentioned ISO 8528 TC is scheduling a plenary meeting at Southwest Research Institute in San Antonio in June. Steve felt that the US roster has shrunk significantly recently. He is suggesting that help with the engine related requirements. Brandon is considering attending.
<i>Any New Business: Member feedback - What questions are most pressing, needed training or presentations.</i>	Robert Simmons	<p>Tim Z. mentioned that there is a new UL standard being developed UL3001- Distributed energy resources. STP has been formed. Kick off webinar last year. Revisiting soon. If interested contacted Tim Z.</p> <p>Steve S. fire official discussion. Likes to ask about auxiliary power systems and how they are dealt with. E-stop? Open circuit breaker? Steve suggested that we broach this topic with local first responders.</p> <p>Tim Z. mentioned there is UL3741- PV emergency response. Engine generator shutdown has not been discussed but he will seek an answer to this question.</p> <p>Any updates on below</p> <ol style="list-style-type: none"> 1. State of Massachusetts gas appliance registration process. Presentation from them at a future meeting? 2. California Energy Commission-CEC. Battery charger requirements are real. Discussed briefly. Lead to a discussion of how to get

		<p>these regional codes distributed make people aware of it. Robert started a spreadsheet. Steve S. would like to see it on Discussed briefly. Possibly on the EGSA website, in the members only section. Possibly a FAQ format. URL link to the actual code.</p> <ol style="list-style-type: none"> 3. Questionnaire on UL2200 then a panel discussion. NRTL, manufacturers, AHJ, and enclosure manufacturers. Staff could facilitate. 4. Suggestions for next meeting. 5. Emergency response coordination. NFPA 1600 TC member presentation? UL has a fire research group that has a strong outreach component. They may be able to present at a future meeting. Tim Z. offered to help make the connection. Involve FEMA?
Adjourn	Robert Simmons	Adjourned at 3:26pm

Schedule

Action Items *(additional space on back)*

Item	Person Responsible	Deadline
Spreadsheet of regional codes and registrations	Robert Simmons	<p>TBD</p> <p>Robert S. mentioned that modular buildings (transportable) registration is required in Texas. Suggested a spreadsheet. Suggestion to target products related to EGSA members.</p>

Codes and Standards Surveillance Committee Mission Statement:

Represents EGSA and its members' interests on select national and international industry codes and standards committees and reports back to the membership through *Powerline* magazine, Committee meetings, Action Alerts, and e-mail blasts. The Committee also:

- Develops recommendations and provides action regarding industry codes and standards development and review by request and as needed
- Surveys the membership and other industry professionals to determine the applicable standards it should monitor
- Provides the Association with a platform from which it may develop Recommended Practices for the proper application of codes and standards within the industry
- Educates EGSA members on standards, their application and interpretation

From: [Nigh, Brandon](#)

To: [Jeffrey Jonas](#)

Subject: Re: EGSA Codes & Standards Surveillance upcoming meeting

Date: Monday, March 04, 2019 2:38:19 PM

Jeff,

Here is the current status of the listed:

ISO 8528-1(2018): Reciprocating internal combustion engine driven alternating current generating sets - Part Application, ratings and performance) - New

ISO 8528-2: Part 2 Engines (2018) - New

ISO 8528-3: Part 3 Alternating Current generators (2005) – **To be revised (Project Approved)**

ISO 8528-4: Part 4 Control gear and switchgear (2005) – Confirmed (No Change)

ISO 8528-5: Part 5 Generator Sets (1998) – **To be revised (Project Approved)**

ISO 8528-6: Part 6: Test methods (2005) – **To be revised**

ISO 8528-7: Part 7: Technical declarations for specification and design (2017) – New

ISO 8528-8: Part 8: Requirements and tests for low-power generating sets (2016) - New

ISO 8528-9: Part 9: Measurement and evaluation of mechanical vibrations (2017) - New

ISO 8528-10: Part 10: Measurement of airborne noise by the enveloping surface method (1998) – **To be revised (Project Approved)**

ISO 8528-12: Part 12: Emergency power supply to safety services (1997) – Confirmed (No Change)

ISO 8528-13: Part 13: Safety (2016) - New

ISO 15619(2013): Reciprocating Internal combustion engines – Measurement procedure for exhaust silencers – Sound power level of exhaust noise and insertion loss using sound pressure level and power loss ratio – Confirmed (No Change)

Open Ballots:

ISO 6798-1 - Reciprocating internal combustion engines - Measurement of sound power level using sound pressure -- Part 1: Engineering method

- DIS Ballot Due - March 10, 2019

IS 6798-2 - Reciprocating internal combustion engines - Measurement of sound power level using sound pressure -- Part 2: Survey method

- DIS Ballot Due - March 10, 2019

ISO 8178-1 - Reciprocating internal combustion engines -- Exhaust emission measurement -- Part 1: Test-bed measurement of gaseous and particulate exhaust emissions

- DIS Ballot Due - Jun 18, 2019

ISO 8178-4 - IEC Exhaust Emission Measurement - Part 4 Steady State Test Cycles for different Engine Applications

- DIS Ballot Due - Jun 18, 2019

ISO 3046-6 - Reciprocating internal combustion engines -- Performance -- Part 6: Overspeed protection

- DIS Ballot Due - Jun 20, 2019

Brandon