

Codes and Standards Surveillance Minutes

Date and Time: September 18, 2017 1:00-5:00 PM

Location: Skyway AB Conference Room

Chairperson: John Svendsen

Preparation:

- Read "Standards" article by Herb Whittall in July / August Powerline magazine
- Review meeting minutes from Spring 2017 Conference

Minutes:

Topic	Discussion	Conclusions
Welcome	<p>Leader: <u>John Svendsen</u></p> <p>Introduction of committee officers</p> <p>Recognition of those attending committee meeting for the first time</p>	<p>Thanks to John for his service the last two years as committee chair. After this meeting the new officers will be:</p> <p>Chair: Robert Simmons Vice Chair: Brad Affeldt Secretary: Jeff Jonas We had 22 new attendees</p>
Review and update of membership	<p>Leader: <u>Robert Simmons</u></p> <p>Request any information relative to changes in personnel data from attendees</p>	<p>Attendance sheet was passed out. See attached list.</p>
Meeting minutes from the Spring conference in Orlando, FL	<p>Leader: <u>Robert Simmons</u></p> <p>Request any amendment to minutes previously distributed and move to accept as appropriate.</p>	<p>Minutes reviewed. Motion to approve, 2nd, approved unanimously</p>
Review Mission statement, and initiatives of the C&SS committee	<p>Leader: <u>John Svendsen</u></p>	<p>done</p>
Proposal for Working Group on Diesel Fuel Quality	<p>Michelle Hilger of Arizona Gen-Tech</p>	<p>Michelle Hilger and Kurt Summers shared regarding the development of a working group in the Distributer Dealer committee regarding best practices on testing for diesel fuel quality. Through the course of developing does and don'ts, it became clear that there was much confusion and lack of consensus best method of test. There is a need for clarity in NFPA-110. Hugh Nash commented on interviewing hospital facility maintenance personnel and discovering no clear agreement on the best test method. The DD committee would like the C&SS to develop a working group to affect the standard to be in line with the best practice that will be developed. A motion was made that C&SS create a working group that can work with the DD best practice and</p>

		create an EGSA submittal to input clear direction to 110. 2 nd , approved unanimously.
Discussion on seismic certification issues	Robert Simmons of Petra Seismic Design	Robert Simmons shared that the IBC working group was reopened for the purpose of updating the best practices guide for seismic qualification, and putting it in code language for submittal to ASHRAE as a code writing body to create a standard. Call for members was made.
Working Group update-Steve Sappington, UL 2200	Steve Sappington	Steve shared a summary of the working group. Open comment period has ended, so they crafted EGSA responses to comments made to the latest revision of UL2200. The hope is to have a STP meeting within the next 6 months to bring collaborative effort among the EGSA member organizations, UL, AHJs, etc. Jeff Jonas will roll on as the chair of that working group
Standards Review: -Herb Whittall		See Herb's report below
NFPA 70 (NEC)		See Herb's report below
NFPA 99, 110, 111, 70		See Herb's report below
International Code Council International Building Code. (IBC)		See work IBC work group above
UL2200 (Stationary Generators)		See working group above
UL2201 (Portable Generators)		Herb discussed in G300 the move to add a CO2 switch to shut down the unit when to high so as to protect the public from running in doors and being asphyxiated.
IEEE 1547.1a Standard Test Procedures for Distributed Resources		Marcelo gave a report of the status. The new revision passed and is now for public review. A new draft will be released soon after all public comments addressed. UL1741 will be absorbed into IEEE1547
IEEE 1547.2 – IEEE 1547 Standard for Interconnecting Distributed Resources with Electric Power Systems.”		
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.”		
IEEE 1547.5		
IEEE 1547.6– “Draft Recommended Practice for Interconnecting Distributed Resources with Electric Power Systems Distribution Secondary Networks.”		
IEEE 1547.7		
IEEE 1547.8 – Extended Use of IEEE 1547 Voltage and Frequency Ride through Requirements		
ISO 8528		No action
ISO 8578-5 Reciprocating Internal Combustion Engines Driven Alternating Current Generator Sets – Part 5 Generator Sets.		No action
ISO 15615 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		No action
UL 1778 Uninterruptable Power Systems 2 nd Edition		No action
NEW BUSINESS		No action
Adjourn	Leader: <u>John Svendsen</u>	Receive motion and vote on adjournment

Herb Whittall's report

NFPA has sent out the first notice for the First Draft meeting of the National Electric Code (NEC) Committees for the 2020 edition. This meeting will be held from January 8 through January 20, 2018 in Hilton Head, SC at the Sonesta Resort.

I am currently a member of Panel 13, which covers articles 445, 455, 480, 695, 700, 701, 702, 708, 750 and annexes F and G. These articles cover Generators, Batteries and Emergency Power Systems. Typically, this panel meets during the entire first week of the meeting. However, we are only scheduled for 3 days this time.

The 2017 NEC added 4 new articles concerning electrical generation: 691 — Large Scale PV Electric (over 5,000 kilowatts) Supply Systems; 706 — Energy Storage Systems (ESS); 710 — Stand Alone Systems and 712 - Direct Current Microgrids (powering DC systems).

Part of the notice listed the schedule for processing this new edition and that is what should be of interest to EGSA Members who would like to submit changes to the next edition of the NEC. Mainly, the closing date for public input to the NEC is September 7, 2017. If you want a change made you need to get your information to NFPA at One Batterymarch Park, Quincy, MA, 021697471. To submit a request for change, you need to list which section you want revised, the wording in that section you want amended and finally, the wording you would like used. The committee will review your input and either accept it, reject it (in which case they will reply to you as to why they rejected it), or accept the idea you put forward, but using different wording. The NFPA has its own way of saying things sometimes which requires different wording.

I received notice from NFPA 110 that the second draft meeting will be a teleconference held July 17 at 10 am. EGSA Board Member, Kurt Summers, (Austin Generator Service) sent me an email saying a new member of EGSA has requested that article 8.3.7, a new article which simply states "A fuel quality test shall be performed at least annually using appropriate ASTM

standards" be greatly expanded. This goes along with the discussion at the Distributor Dealer meeting at the Spring Conference, which had a lively discussion about the problems of long term storage of Low Sulphur Diesel Fuel and Biodiesel.

At our March Conference, the Codes and Standards Surveillance Committee had a visiting speaker from UL, George Lampton. He discussed the changes that UL was writing into UL2200 Stationary Engine Generator Assemblies to make it compatible with the Canadian Standard. Since that meeting, we have requested UL to hold a meeting of the Standards Technical Panel to allow members to discuss those changes, why they were done and how will they change the standard. To date, we have not heard back from UL.

ISO /TC70 has updated their Strategic Business Plan. TC70 has several working groups that write their standards. The standards that effect our industry are mainly WG10 — Reciprocating internal combustion engine driven generator sets and TC70/SC8 — Exhaust gas emissions measurement. They specifically request input on Article 2.2 — Quantitative Indicators of the business environment — since these indicators help TC70 decide what needs to be done. The last paragraph under 2.2 is interesting. It says "In 2012 the total worldwide value of IC engines produced was approximately \$US 125 billion. Of this, some \$52 billion (U.S.) was applied to electrical generation or applications where electrical power and heat were the prime requirements." Big numbers for our industry.

ISO has published ISO 8178:2017 Reciprocating internal combustion engines — Exhaust emissions measurement part 1: test bed measurement systems of gaseous and particulate emissions; and Part 4 Steady-state and transient test cycles for different engine applications. Voting closed on ISO 8528 — Internal Combustion engine driven alternating current generating sets Part 7 — technical declarations for specification and design, and Part 9 — Measurement and evaluation of mechanical vibrations.