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FEATURED ARTICLE

New U.S. and Canada Binational Standard Published for Door and Gate Operators And Systems

By: Stephen Kuscsik, principal engineer, Motor Operated and Radiant Heating Products

In May 2017, a new binational U.S. and Canadian Standard for garage door operators, gate operators, and similar products was published: ANSI/CAN/UL 325. This article is an update of the previous announcement made in Q4 of 2017.

Automated door and gate systems are common in both U.S. and Canada. In fact, many of the same manufacturers, distributers, and dealers operate in both countries, and the use of these products is very similar across borders. However, until recently, the product safety standards for these products were not the same. With the publication of ANSI/CAN/UL 325, Standard For Safety For Door, Drapery, Gate, Louver, and Window Operators and Systems, the safety requirements for these products are now aligned.

The Door and Access Systems Manufacturers Association (DASMA) and the Canadian Door Institute of Dealers, Manufacturers and Distributors (CDI), along with input from approximately 40 U.S. and Canadian industry representatives, worked as part of the UL 325 Standards Technical Panel to successfully publish ANSI/CAN/UL 325 as a joint Canada-United States National Standard on May 19, 2017. The cooperation between U.S. and Canadian manufacturers and industry partners was essential in harmonizing requirements to provide the latest in safety standards for the door and gate operator industry across Canada and the U.S. The result is a common Standard that can be used to increase consistency in the production, installation, use and safety of these products.

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ALSO IN THIS ISSUE

A Letter From Domenico Chicco

The Appliances industry is evolving, and so is UL.

The new EU regulatory framework on energy labeling aims to highlight the technological innovations introduced by the industry and support the development, with a focus on energy efficiency, of the installed product portfolio.

A newly updated, clearer scale product registration database will allow the public to consult product labels, compare energy efficiencies and help consumers make better informed choices when purchasing household appliances.

In this issue, you will find updates on the new framework and how UL can support the industry through its global team and worldwide footprint. Stay tuned on the next steps of UL's global journey.

Domenico Chicco
Global Commercial Leader – Appliances Industry

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(cover story continued)

New U.s. and Canada Binational Standard Published for Door and Gate Operators And Systems

WHAT DOES ANSI/CAN/UL 325 MEAN TO YOU?

ANSI/CAN/UL 325 is now the official National Standard of Canada (approved by the Standards Council of Canada (SCC)), in addition to the American National Standard (approved by the American National Standards Institute (ANSI)). It outlines the minimum product safety construction, testing, manufacturing and installation requirements for commercial and residential door and gate operators and similar products.

In January 2018, an updated Canadian Electric Code (CSA C22.1-18) was published, and now includes ANSI/CAN/UL 325 in the list of referenced standards for electric equipment product safety in Canada. Products certified by UL complying with the new standard are already available on the market, and demand for products complying with the new standard is expected to continue to grow. To aid in communicating these new requirements, an overview of the new ANSI/CAN/UL 325 was presented at industry trade shows and conferences in the U.S. and Canada, and information sessions continue to be held with architects, dealers, and other industry members. Additionally, a free public webinar is available via the link below.

WHAT HAS CHANGED?

For products intended for sale in Canada, some key changes in safety requirements in the new standard apply to gate operators, commercial door operators and residential garage door operators.

RESIDENTIAL DOOR OPERATORS

- New accessories able to control residential doors by timers, remote phone apps or similar devices have added requirements: changes to the control function and added alerts before motion.
- Enhancements to the entrapment protection systems now confirm the operator will continue to reverse within 2 seconds, even when the door motion begins within 2 inches of an obstruction.

GATE OPERATORS

- Two independent entrapment protection devices must be installed and active to protect each entrapment zone of an automated gate system.
- The operator is not allowed to move until after the minimum number of entrapment protection devices is installed.
- Operators must continuously monitor for the proper operation of any external entrapment protection devices like a photoelectric system or sensing edge. If the external entrapment protection device is not working, the operator must limit control functions to close (or open) the gate only under a constant-pressure mode. It shall not be easy to bypass, interfere with or defeat the monitoring system.

COMMERCIAL DOOR OPERATORS

- Similar to the current standards, an external entrapment protection device, such as a photoelectric system or sensing edge, must be installed to protect the entrapment zone at the floor for any door that can be closed by any controls other than constant pressure (e.g. remote control, timer or loop sensor).
- Operators must continuously monitor the proper operation of any external entrapment protection devices like a photoelectric system or sensing edge. If the external entrapment protection device is not working, the operator must limit control functions to constant-pressure-to-close operation.

HOW YOU CAN FIND OUT MORE

Click HERE to view the recorded webinar discussing the most recent UL 325 Canadian and U.S. requirement updates for automated door and gate operators and systems.

Manufacturers, dealers, installers, regulators or anyone wanting to find out more can also visit UL.com/AccessSystems, or contact Steve Kuscsik at Stephen.Kuscsik@ul.com

UL Focuses on Quality and Honesty during "Made in China" Forum

By Lareina Yao, communications specialist

UL's Chongqing Key Account Summit was successfully held in Chongqing and Xishuangbanna. Over 100 Appliances, HVAC/R, Lighting And Small Appliance specialists in various AHL industries across the country gathered to talked about new trends and future developments.

The Lighting industry has always been an important part of China's manufacturing industry. With the deepening and steadily advancing implementation of the "Made in China 2025" strategy, established to improve brand impact and product quality, lighting manufacturers brought forward the agenda of energy-saving, intelligent and environmentally friendly lighting products. This effort will help transform China from a major supplier of lights to a major influence in light manufacturing.

At the UL's Chongqing Key Account Summit, UL experts shared insights regarding the status quo and future development of internet-based lighting with the guests. The LED industry will continue its industrialized revolution as an increasing number of conventional, manually-replaceable products will be replaced by multi-functional and integrated LED lights. Some of these new developments are listed below:

- Budding OLED and QUANTUM DOT technologies
- A new way of establishing wireless connectivity with LIFI
- Grow lights for use in horticultural applications (UL already released UL 8800, the first testing Standard for grow lights)

Concurrently, the development of the Internet of Things (IoT) is shaping product trends, as lighting manufacturers begin to shift from the model of only providing lights to providing lighting services.

Keen Zhang, director of sales in China for UL, mentioned at the summit, "At the end of 2015, UL's Suzhou Laboratory was officially approved for the NVLAP qualification and is able to certify designated products, including LED lights, energy-saving lights, solid-state lighting, and fluorescent lights." In March 2016, the UL's Suzhou lighting laboratory was officially opened and UL's services in China have since ascended to a new level.


Zhang

UL will always be guided by the needs of its clients to provide more convenient and localized professional services for lighting manufacturers. We will continue to enhance our capabilities, collaborate, help companies adapt to volatile trading rules, help reduce time to market and win the trust and support of end clients through constant brand commitments.

In 2017, China's productivity in air conditioning, refrigerators and television accounted for 78percent, 52percent and 49percent, respectively, in the world. At present, domestic consumption is being upgraded, internet technology and modern manufacturing are further engaging with each other and the IoT has become the most important area of innovative development in the home appliances industry.

Steven Shi, general manager of UL-CCIC, expressed thanks for the support provided by the company's partners over the years and remarked, "UL's development would have never happened without the support and trust of its clients. In the face of a year that is full of both opportunities and challenges, UL's professional local teams are ready and will provide one-stop diversified services on the basis of UL's global resources as the company always does for its clients. They will be the guides and guardians for their clients in international competitions

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UL Focuses on Quality and Honesty during "Made in China" Forum


Shi

and will contribute their insight, together with the clients', towards the realization of 'Made in China 2025' of the home appliances industry with their all-around solutions."

After obtaining the CCC certification laboratory qualification for air conditioning and refrigerators in 2014, UL was approved for China's mandatory energy and efficiency label testing for air conditioning products qualification in 2017. In the same year, UL's small appliances laboratories were expanded in Guangzhou, and UL's laboratories for electric heating pads and blankets were also established to provide local testing services in Suzhou. UL's Guangzhou Nansha laboratory has greatly enhanced its testing qualification for CBTL, GS and ILAC (IAS) for small appliances and has extended the hearing and noise testing capabilities required by the Brazilian Inmetro 430/2012.

This year, UL's Suzhou laboratories added washing machine and dryer ILAC (IAS) laboratory qualifications and the registered laboratory qualifications of SASO 2883 and SASO 2885. This means UL is equipped with the ability to provide "one-stop" services that exceed China's market access requirements for large and small companies. It also indicates that UL has yet again made a solid step in helping companies explore China's market.

This event not only brought an abundant amount of useful information to the guests, but also led them to experience the beautiful mountains and waters of the Mountain City (Chongqing) and the exotic vibes of Xishuangbanna. Moreover, the series of exciting activities enhanced understanding among guests from different industries and built a platform of exchanges for the industry to promote cooperation, a win-win situation and the movement of information.

New From UL! 60335-2-34, 4th and 6th Edition

Are you involved in the certification of HVAC/R equipment? Specifically hermetic refrigerant motor-compressors? UL's new web-based interactive document provides a comparison of UL 60335-2-34, 4th Edition, with UL 60335-2-34, 6th Edition.

The tool enables you to more easily determine whether motor-compressors presently complying with the 4th Edition of UL 60335-2-34 will also comply with the 6th Edition of UL 60335-2-34 and, if not, will assist in determining the work required for bringing motor-compressors into compliance with the 6th Edition. **Click here to learn more and purchase today!**

News Reel

Strengthening Security in Cyber

With the advent of the IoT in network-connected products in residential, commercial and industrial segments, the Appliances and HVAC industry is becoming more connected to suit market needs. That connectivity is driving innovation, and, with trends increasing exponentially for IoT connected products, manufacturers and vendors are becoming increasingly aware of the concern around security in these products. See how UL is addressing these security concerns and supporting customer innovation in connected Appliances and HVAC systems: UL.com/cybervideos

ISTA Package Testing and More

UL's performance testing lab in Allentown, PA offers a wide array of testing solutions to service the evolving needs of our clients. This includes ISTA, IP/IK, Salt Spray/Cyclic Corrosion, Vibration, Thermal Shock and more. See the extended solutions UL can provide by visiting: UL.com/lightingvideos

UL in the News

Appliance Design Magazine

UL was featured in Appliance Design Magazine's annual International Appliance Manufacturing (IAM) publication. The two articles focus on Cyber and Gas, both hot topics in the Appliance Industry. Read the full articles by clicking the links below:

- Safer Gas for a Safer Future
- Maintain a Safer Connection – Cybersecurity to Protect the IoT

Water Quality Products Magazine

In Water Quality Products Magazine's (WQP) September issue, UL's own Chuck Erickson was featured with his article on understanding product certification for plumbing and fixtures. Read the full article here.

Global Market Access Corner:

UL maintains a global presence and a focus on helping customers access markets around the world that matter most to them. With unmatched technical expertise, a worldwide network of CB testing laboratories and localized staff who can offer services and expertise in the local language, we deliver technical assessments and reports that cover the latest editions of applicable international standards.

Our Global Market Access team is prepared to help you achieve compliance with new requirements and works diligently to remain aware of updates and revisions. For more information or to contact our experts, visit our Global Market Access site at ul-certification.com.

Sultanate of Oman – Energy Efficiency & Labeling Requirements for Air Conditioners

By: Elena Andreula, EMEA Regulatory Program Expert

Ministerial Decision No 107/2018 adopted GCC Standard GSO 2530/2016 as an obligatory Omani Regulation for energy labeling and minimum energy performance requirements for air conditioners.

The conformity assessment requirements and certification path are now under construction by the Directorate General of Standards & Metrology (DGSM).

With the implementation of Energy Efficiency and Labeling, Oman adds to the list of Gulf countries that have already implemented or are implementing similar regulations.

Country	MEPS and EEL requirements for household ACs
Oman	Under implementation - GSO 2530/2016
Saudi Arabia	Mandatory and already implemented - SASO 2663/2018
UAE	Mandatory and already implemented - UAE.S 5010-1.2016
Bahrein	Mandatory and already implemented - Ministerial Decree No (31) of year 2017
Qatar	Mandatory and already implemented - QS 2663/2017
Kuwait	Under implementation - KWS 1893:2018
Yemen	Not yet regulated

Egypt – Energy Efficiency & Labeling Regulations

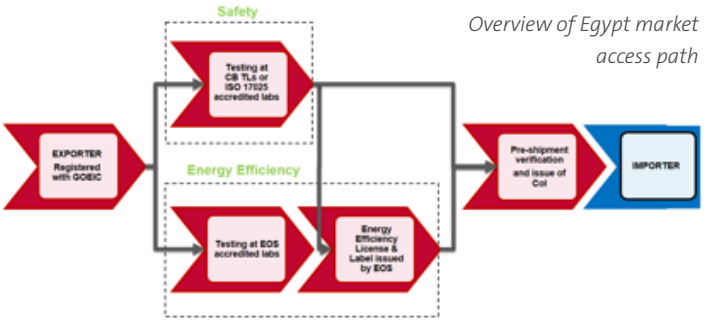
By: Elena Andreula, EMEA Regulatory Program Expert

In May 2018, The Egypt Ministry of Commerce and Industry issued Ministerial Decision No 477/2018 requiring refrigerating appliances, vacuum cleaners and air conditioners to comply with designated energy efficiency and labeling standards, effective beginning December 22, 2018.

Before selling appliances in the Egyptian market, it is mandatory to have an energy efficiency license together with an approved energy efficiency label. The Egyptian Organization for Standards and Quality (EOS) is the only organization authorized to issue the energy efficiency license and label; manufacturers are required to submit test reports issued by EOS accredited laboratories according to the applicable Egyptian standards.

For other products like household dishwashers, household washing machines and electrical ovens, it is already mandatory to have an energy efficiency license and label approved by EOS as per Ministerial decree No. 912/2017.

The license and label add to the mandatory shipment certification for regulated products. The presence of the energy label is checked during pre-shipment verification to obtain the required Certificate of Inspection.



Overview of Egypt market access path

Europe – Draft Regulations on Energy Labeling and Eco-design

By: Elena Andreula, EMEA regulatory program expert

The European Commission has released the draft regulations on Energy Labeling and Eco-design requirements for refrigerating appliances, household dishwashers, household washing machines and household washer-dryers.

Therefore, the following Commission Regulations should be repealed:

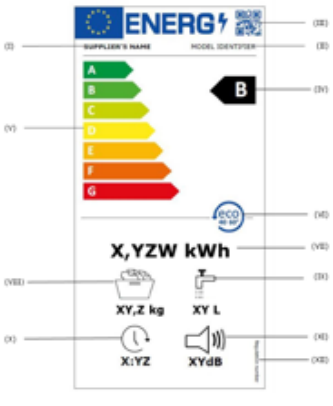
- (EC) No 643/2009 – Eco-design requirements for refrigerating appliances
- (EU) No 1060/2010 - Energy Labeling requirements for refrigerating appliances
- (EU) No 1016/2010 - Eco-design requirements for household dishwashers
- (EU) No 1059/2010 - Energy Labeling requirements for household dishwashers
- (EC) No 1015/2010 – Eco-design requirements for household washing machines and household washer-dryers
- (EU) No 1061/2010 and Directive 90/60/EC - Energy Labeling requirements for household washing machines and household washer-dryers

Main proposal objectives

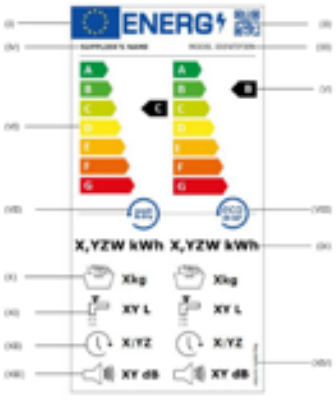
- Review and update the current energy label with a new layout, an A to G rescaled energy label, and a QR code linking the model information to the public part of the product registration database has been introduced
- Clarify the scope and set the appropriate requirements for the different product groups
- Introduce new calculation methods and requirements
- Facilitate compliance checks and market surveillance introducing the EU Product Database for Energy Labeling (EPREL) where manufacturers should enter and provide product information and data

Obligations of suppliers in relation to the product database

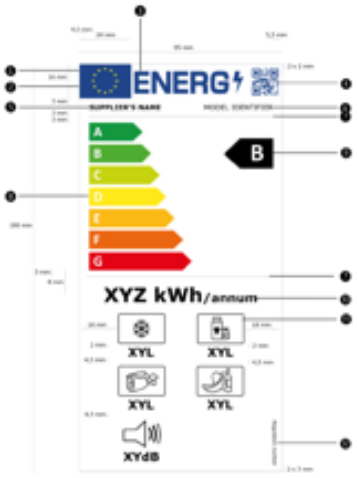
- Beginning January 2019, any new model shall be registered in the database
- Until June 2019, all models placed on the market between August1, 2017 and January 1, 2019 shall be registered in the database
- Only models placed on the market before August 1, 2017 may be registered



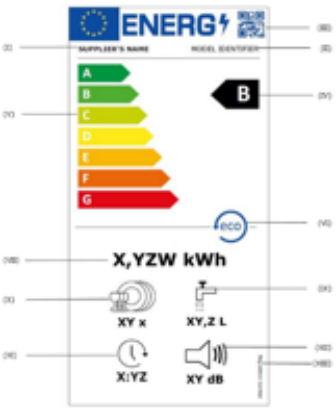
Layout of the new Energy Label for household washing machines



Layout of the new Energy Label for household washer-dryers



Layout of the new Energy Label for household refrigerating appliances



Layout of the new Energy Label for household dishwashers

Ukraine – Energy Efficiency – New Technical Regulation on Energy Labeling for Cooking Appliances

By Paola Pesconi, Ukraine regulatory program expert

A technical regulation on energy efficiency labeling for cooking appliances was recently published and will become mandatory for Ukraine market access.

Beginning December 12, 2018, a Ukrainian energy label must be placed on household electric and gas ovens and household hoods, informing customers about the Energy Efficiency class of the product. The regulation is based on European directive no. 2010/30/EC and, except for the local language and flag, label layout is similar to the European Energy Label.

The adoption of the technical regulation is part of a larger program for the implementation of energy efficiency requirements in the Ukraine.

Similar regulations are currently in force for:

- household tumble dryers
- air conditioners
- vacuum cleaners
- household electrical refrigerators
- household washing machines
- household dishwashers
- electrical lamps and luminaires
- TVs

In addition, technical regulations on eco-design, based on European regulations, have been drafted by the State Agency for Energy Efficiency and Energy Conservation of Ukraine.

All the new and drafted regulations are harmonized with the European Union requirements.

Technical Regulation details

Official document reference:

Technical Regulation on the Energy Labeling of Household Ovens and Cooker Hoods approved with the Order of the Ministry of Regional Development, Construction and Housing and Communal Services of Ukraine No.28, dated July 22, 2018.

Important dates:

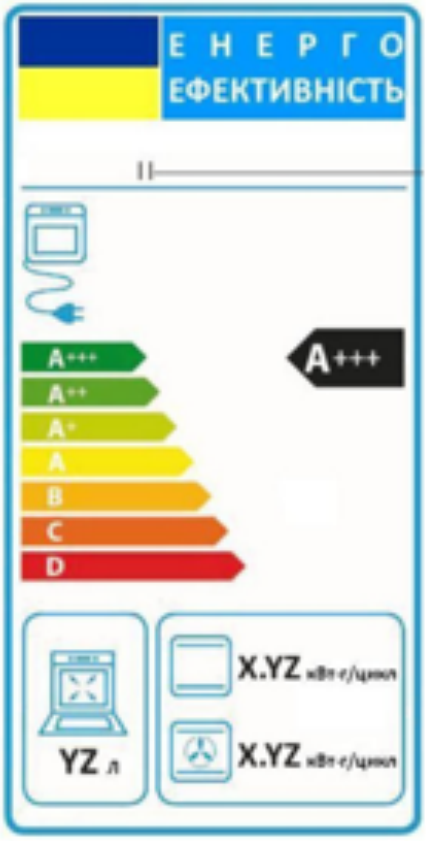
- June 12, 2018 - Regulation is published
- December 12, 2018 - Regulation enter into force

Requirements:

- Energy Label in Ukraine
- Product Fiche in Ukraine
- Technical Documentation Folder

Tests can be conducted by the manufacturer or by a third party test laboratory.

No certification or approval is required for the conformity assessment.



Example of an Energy Label for electrical ovens

Stay informed with UL

UL continues to monitor the energy efficiency regulation as it is moved toward finalization. In addition to providing testing for appliances, we keep our customers aware of changes by becoming one trusted source of compliance information and support the product registration process.

Middle East – G-Mark, 4th GNBCG-LV meeting in Dubai and new GSO Tracking System

By Gabriella Mazzola, Global Market Access Engineering Leader

From October 22-24, Notified Bodies operating under GSO Regulation BD-142004-01 for Low Voltage Electrical and Appliances met in Dubai for the fourth meeting of the Group for the Low Voltage Electrical Equipment and Appliances Technical Regulation (GNBCG -LV).

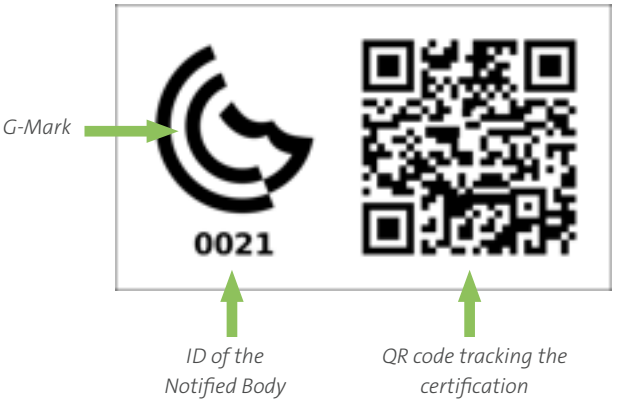
The GNBCG-LV meeting and relevant working groups have the important task of harmonizing interpretations of the regulation and of the relevant conformity assessment processes. During the meeting, GSO announced the upcoming implementation of a new tracking system that will improve the tracking of certificates and products on the market.

The new system will involve the following main changes:

- Economic Operators will have the option to register and have direct access to the system
- The QR code for the certificate and the QR code for the product will be differentiated
- The ID of the Notified Body will no longer be marked on the products

The new tracking system will replace the current one during the course of 2019 and will allow a greater flexibility to switch from one NB to the other with no impact for the markings on the product.

Current GSO Conformity Markings including NB number



How UL can help

UL is actively and effectively participating in GSO Notified Bodies Cooperation Group for Low Voltage Electrical EquipmentRegulation and can offer expert advice to determine the impact of regulatory changes on your product.

UL is also providing technical expertise, a worldwide network of CB testing laboratories and qualified staff that can support in delivering technical assessment and reports to cover the latest editions of the applicable international standards.

UL Notified Bodies can deliver G-Mark certificates in an effective, reliable way to eliminate any risk during surveillance at customs or on the market.

These updates are for information purposes only and are not intended to convey legal or other professional advice.

By: Joe Musso / UL Standards Program Manager

Standards Corner

Click here for Standards information

Register for "What's New" to receive e-mails twice a month indicating the new published UL Standards, Outlines, and Proposals.

STP 325 – DOOR, DRAPERY, GATE, LOUVER, AND WINDOW OPERATORS AND SYSTEMS – A set of 11 new proposals were circulated for ballot in July 2018, with voting and comments due September 4. Nine of the topics reached consensus, but with seven topics receiving comments that need to be recirculated in Q4 2018.

STP 507 – ELECTRIC FANS – Standards work in this area remains active, with several proposals recently completing the standards process, and the resulting revisions published in August 2018. Several new proposals, including updating references to component standards, a static load test for ceiling insert fans with tab mounting means, and ceiling fan blade edge requirements were circulated for STP ballot in September 2018, with ballots and comments due October 15. All topics reached consensus, with no comments. Revisions were published in November.

In addition, the task group formed to continue work on a proposal submitted from the CPSC to include a new thermal condition performance test for unattended fans, continues to make progress. CPSC is leading the task group, which is working toward development of a proposal for consideration by the STP and public.

SAVE THE DATE: The next STP 507/705 Meeting will be February 26, 2019, in Clearwater Beach, FL.

STP 749 – HOUSEHOLD DISHWASHERS – The STP ballot of the proposed new (11th) Edition concluded in May 2018, with the initial ballot failing to reach consensus. Comment resolution was successful. Recirculation of the resulting changes to the proposed new edition opened August 17, with a closing date of October 1. Consensus was reached, and the target for publication of the 11th Edition is November 30.

STP 858 – HOUSEHOLD ELECTRIC RANGES – Two new proposals, including an update to the surface element turn-off requirements, and a clarification for the off marking and heat setting requirement, were posted for ballot October 26, 2018, with a closing date of December 10.

STP 923 – MICROWAVE COOKING APPLIANCES – The proposal intended to address the potential risks associated with handling hot food and beverage items by young children in connection with microwave oven usage, was circulated for STP ballot August 3, 2018, closing September 17. The proposal reached consensus, but with comments resulting in changes that need to be recirculated. That step will be initiated in November, with the hope that the final revisions can be published before the end of 2018.

A separate proposal to add requirements for smart-enabled microwave ovens was circulated for STP ballot in April 2018. The proposal reached consensus, but with several comments. Final recirculation opened October 26, with a closing date of November 26.

STP 982 – MOTOR-OPERATED HOUSEHOLD FOOD PREPARING MACHINES – A series of 9 new proposal topics were posted for STP ballot in October / November 2018 timeframe, with separate ballots due November / December. Topics address requirements related to the following:

- Clarification of applicability of self-holding protector abnormal operation test
- Smart enabled machines
- Vacuum blender
- Feed opening accessibility
- Electric knife unintentional operation
- Interlocked blender cover opening equivalent area
- Food processors with momentary contact switch
- Input test
- Soup making blenders

continued on next page

Standards Corner

STP 1017 – VACUUM CLEANERS, BLOWER CLEANERS, AND HOUSEHOLD FLOOR FINISHING MACHINES – A new revision cycle is underway. The technical harmonization committee (THC) met in July 2018 to review and discuss the draft proposals prior to passing along to the SDOs for processing. Work is ongoing, with the next THC meeting scheduled for March 2019. Once the compiled draft proposals are ready, the next step will be to circulate the document for review by the consensus bodies and public..

STP 2595 – GENERAL REQUIREMENTS FOR BATTERY-POWERED APPLIANCES – The new (3rd) Edition of UL/CSA 2595 has been developed and was circulated for preliminary STP review, with a June closing date for comments. The new edition will integrate, update and clarify a number of requirements related to maximum rated voltages, use of general purpose batteries, general conditions of test requirements, normal charging of lithium-ion systems, power switches and products powered or charged by universal serial bus (USB) power sources. A significant number of comments were received and are currently being considered by the Technical Harmonization Committee. It is anticipated that the proposed new edition will be posted for ballot in the first quarter of 2019.

STP 60335-2-40 – HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY – PART 2-40: PARTICULAR REQUIREMENTS FOR ELECTRICAL HEAT PUMPS, AIR-CONDITIONERS AND DEHUMIDIFIERS – The international harmonization working group (CANENA 61D Work Group 10) has been meeting regularly to address preliminary review comments received on the initial draft of the proposed new (3rd) edition. This work is nearing completion, and the target ballot timeframe is January 2019.

Tradeshows & Webinars

Our 2018 Tradeshow season has come to an end, but here's a look at what's coming up in early 2019:

The National Association of Food Equipment Manufacturing Show (NAFEM) 2019

February 7-9, 2019
Orlando, FL

Learn more >

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