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FEATURED ARTICLE

Cooling Towers: Preventing Legionnaires Disease and Mitigating Risk in Buildings

By: Gregory J. Smith ULLC Program Manager / UL Field Engineering

When was the last time you walked through a manufacturing location, hotel, by a public fountain, or visited a health care facility? Have you ever considered what helps to assure you, and others, are safe from water or airborne diseases that can cause serious illness or even death?

Since 2000, the number of cases of Legionnaires' disease has increased 400%! More troubling is the fact that 10% of those contracting Legionnaires' will die from it. That number elevates to more than 25% with individuals in health care facilities.

Many examples exist to illustrate the impact that a Legionnaires' outbreak can have on a company. Consider that in the Summer of 2015, a Legionnaires' disease outbreak in South Bronx was attributed to Legionella-contaminated cooling towers. One hundred and thirty-eight cases were confirmed, resulting in 16 deaths. Additionally, fifteen cases of Legionnaires' disease were identified in Flushing, NY (New York City area) in October of that year. NYC Health investigators tested several cooling towers and ordered disinfection of the ones in which Legionella was found.

One of the unfortunate situations with these outbreaks is that many individuals may not be reporting occurrences, or they are not being correctly diagnosed. Thus, the actual number is more than likely higher. As a result of the Legionella outbreak of 2015 in New York, both New York City and the State issued Rules and Regulations requiring owners of buildings with cooling towers to manage the risk of Legionella outbreaks.

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A Letter From Domenico Chicco



Greetings,

As the new Senior business development manager for the Appliances industry at UL, I am happy to introduce myself and pleased to be working with you. With an engineering and marketing background, I have built my experience in the industry as a planner and marketer, close to the market and the business. My job is to anticipate your needs as an industry and to provide services that align with those needs.

The Appliances industry is evolving and UL evolving with it.

Energy efficiency is one of the key drivers for the household refrigeration market and in this issue you will find updates on the IEC standard and how UL is a valuable partner for your product development strategy.

Stay tuned for the next steps of UL's global journey.



Domenico Chicco
Global Commercial Leader for
the Appliances industry



Upcoming UL Education & Training for the Appliances Industry

At UL Knowledge Solutions, our goal is to help you develop safe, useful products that meet and exceed your customers' needs. Here you will find dozens of training courses taught by qualified instructors, both Public Workshops and Online eLearning Courses.

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(cover story continued)

Cooling Towers: Preventing Legionnaires Disease and Mitigating Risk in Buildings

In June 2015, the American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) published ANSI/ASHRAE 188-2015, Legionellosis Risk Management for Building Water Systems. ASHRAE- 188 established a new Standard-of-Care as the first industry-consensus standard for managing building water systems to prevent Legionnaires' disease.

Both NYC and NYS have also created requirements for the maintenance of cooling towers. All of these require that a Maintenance Program and Plan (MPP) is developed, implemented, and documented. As a result of these new requirements, UL recently developed a comprehensive, practical, and efficient way to assure cooling towers are safe.

The unfortunate truth is that the laws regulating cooling towers overlap and can be confusing, time consuming, and complicated. Not meeting these requirements can also result in heavy fines. It is estimated that over \$ 20 million dollars in fines were levied against building owners from 2016 to 2017. UL's new program eliminates the need for building owners or property managers to navigate through these requirements.

So how does Legionnaires' disease actually manifest itself?

Legionella & Legionnaires' disease:

- *Legionella* is the bacterium that causes Legionnaires' disease. Under certain circumstances, it can flourish in the water within cooling tower systems that are used for building air conditioning and other systems.
- This disease results from inhaling bacteria in microscopic water droplets released from cooling towers.
- Smokers, the geriatric population and cancer patients are at especially high risk. *Legionella* infection can lead to respiratory failure and death.

Cooling Towers & Legionnaires' disease:

- Under certain cooling tower operating conditions, small numbers of *Legionella* from the environment can grow to very large numbers.
- Legionnaires' disease results from inhaling *Legionella*-contaminated water mist (drift) released from cooling towers.

What are the benefits of UL's Cooling Tower Program?

- Reduces the likelihood of a Legionnaires outbreak
- Protects the customer's brand
- Prevents fines (public)
- Minimizes litigation
- Reduces costly business interruptions

Why should building owners have a third-party audit of cooling towers?

An effective MPP can significantly reduce the likelihood of a Legionnaires outbreak. UL's auditing process provides a practical and efficient way of minimizing risk of liability by helping to ensure the MPP is implemented and continuously followed.

For more information, please contact:
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 or call 920-387-9738 and
Robert.F.Keogh@ul.com
 or call 627-293-7510.

¹ Christian Nordquist, 17 July 2017, "Legionnaires disease: What you need to know", Medical News Today

² CDC "Legionnaires Disease: A problem for Health Care Facilities" taken from <https://www.cdc.gov/>

³ CDC "Legionnaires' Disease Outbreak Caused by Endemic Strain of *Legionella pneumophila*, New York, New York" taken from https://wwwnc.cdc.gov/eid/article/23/11/17-0308_article

⁴ Recent Legionnaires Disease Outbreaks taken from <https://hcinform.com/about/outbreaks/recent/>



Keeping Energy Efficiency a Top Priority

By: Rolando Aries / UL Engineering Leader

In an increasingly energy consumptive market, governments and manufacturers alike are working intensively to reduce energy demands, gas emissions and costs. Additionally, consumers are expecting to find more energy efficient options. As a result of this new dynamic, manufacturers must remain constantly aware of changing requirements and standards for the appliances they produce.

One of the most power-hungry household appliances is the refrigerator. To help manufacturers develop and market products that meet the needs of today's more energy-efficiency conscious customer base, three new international energy efficiency standards were published in February of 2015. These standards are:

1. IEC 62552-1:2015 Household refrigerating appliances – Characteristics and test methods – Part 1: General requirements
2. IEC 62552-2:2015 Household refrigerating appliances – Characteristics and test methods – Part 2: Performance requirements
3. IEC 62552-3:2015 Household refrigerating appliances – Characteristics and test methods – Part 3: Energy consumption and volume

New and critical changes were introduced to update the previous edition, IEC 62552:2007. These changes are detailed below:

1. The consumption test is now conducted at two ambient temperatures: 32°C and 16°C. The previous edition involved only a temperature of 32°C or 25°C, depending on the climatic class.

2. Product setup must be conducted during the consumption test without “thermal mass” in the freezer. The previous standard edition of 2007 allowed for thermal mass in the freezer.

At UL, we understand that manufacturers will face additional development work to become compliant with these new requirements as new projects and product platforms must anticipate these new test conditions. Maintaining a high level of energy efficiency remains as the central goal, but it will now be measured according to these new methods.

The ultimate goal of these standards is to highlight technological innovations

introduced by the industry and to support the energy efficiency development of products already on the market by adding a new labelling system representative of performance. Last but not least, these new standards will be adopted by many more countries than the prior versions were, which will allow a more uniform and balanced development of industrial platforms.

The table below summarizes the adoption status of the new IEC 62552: 2015 standards in many countries which have already introduced, or are introducing, energy efficiency and/or labelling requirements.

	AFRICA	ASIA PACIFIC	MIDDLE EAST	LATIN AMERICA	AUSTRALIA/NEW ZEALAND
COUNTRY ADOPTION	Egypt YES	China YES	UAE NO	ARGENTINA NO	AUS/NZ YES
STANDARDS	ES 3734:2016	GB 12021.2:2015	UAE.S.5010-3:2013	IRAM 2404-1:1997 IRAM 2404-2:2000 IRAM 2404-3:2015+A1:2016	AS/NZS IEC 62552-1:2016 (IDT) AS/NZS IEC 62552-2:2016
NOTES	ES 6000-1 ES 6000-2 ES 6000-3 are the adoptions of new IEC with national modifications	Testing laboratories shall be CNAS recognized.	The test methodology and marking requirements are in accordance with UAE.S IEC 62552:2013	In-country testing is required	Mandatory implementation planned for 2021
COUNTRY ADOPTION	S. AFRICA NO	Singapore NO	Saudi Arabia NO	BRAZIL NO	
STANDARDS	SANS 341:2014 SANS 62552:2008	IEC 62552:2007 ISO 15502:2005	SASO 2892:2018	Portaria 577:2015	
NOTES	SANS 62552 is identical to IEC 62552:2007	NCA Accreditation is required for testing laboratories	Tests method based on IEC 62552:2007	Tests method based on IEC 62552:2007	
COUNTRY ADOPTION	Mauritius NO	Malaysia YES	Qatar NO	CHILE NO	
STANDARDS	MS 201	MS IEC 62552-1:2016 MS IEC 62552-2:2016 MS IEC 62552-3:2016	QS SASO 2664:2016	PE No 17/2	
NOTES	Tests method based on EN		QS standard is based on SASO 2664:2013 with national modifications	Tests method based on IEC 62552:2007, ISO 15502:2005, NCh 3000:2006	
COUNTRY ADOPTION	Nigeria NO	India NO		MEXICO NO	
STANDARDS	MS 342:2017	IS 15750:2006		NOM-015-ENCR-2012	
NOTES	The standard is not yet available	Tests method based on ISO 15502:2005 AS/NZS 4474.1:1997			
COUNTRY ADOPTION	Algeria NO	Giappone YES			
STANDARDS	Decree 25 dated 21 February 2009	JIS C 3801-1:2015 JIS C 3801-2:2015 JIS C 3801-3:2015			
NOTES	Testing and calculations methods are taken from EU Regulation	Are the adoptions of new IEC with national modifications			
COUNTRY ADOPTION	Kenya NO	South Korea NO			
STANDARDS	KS 2464-1:2013 KS 2464-2:2013	KC 62552:2010			
NOTES	Normative references: IEC 60704, ISO 6360, ISO 15502, AS/NZS 4474 1:2016	KS standard is identical to IEC 62552:2007 Test Reports shall be issued by KEA accredited labs			

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Keeping Energy Efficiency a Top Priority

In the fields of energy efficiency and “energy class,” European manufacturers must also face the EN standard harmonization, which means the transition from IEC to EN standards with specific deviations for the European market. Today, the EN 62552:2013 standard, used in eco-design, is still based on IEC 62552:2007 as it has not yet adopted the February 2015 IEC update.

The test method for the new EN standard, which is still under discussion and without an adoption date, will mirror the European regulation for energetic classification. The new European regulation, EU 2017/1369, scheduled for publication on July 28, 2018, establishes a framework for the new energetic label and abrogates the Directive 2010/30/UE.

UL, with its global range of laboratories and a strong team of engineers, is ready to globally support those manufacturers looking for a partner in the evaluation of refrigerator energy performance. Completing this evaluation with UL can help manufacturers reduce time to market while gaining an essential competitive advantage.

Three UL 60335-2-34 Standards – Summary Comparison

On November 3, 2017, UL published the Sixth Edition of UL 60335-2-34, the Standard for Safety for Household and Similar Electrical Appliances, Part 2: Particular Requirements for Motor-Compressors. This Standard deals with the safety of refrigerant motor-compressors – the “heart” of a typical refrigeration or air conditioning system. This new edition was created for the purpose of harmonizing U.S. and Canadian motor-compressor requirements with the requirements in IEC 60335-2-34, edition number 5.2.

The requirements in UL 60335-2-34, Sixth Edition became effective on the publication date (November 3, 2017) and motor-compressors are now being certified using requirements in this new edition.

However, the Fourth and Fifth editions of UL 60335-2-34 are still active, and motor-compressors can continue to be evaluated by UL to these editions until March 31, 2021, at which time both of these editions will be withdrawn. For motor-compressors evaluated to the Fourth or Fifth editions of UL 60335-2-34, no industry file review will be mandatory. At the discretion of the manufacturer, motor-compressors evaluated to the Fourth or Fifth Editions of UL 60335-2-34 can remain certified even after these editions are withdrawn on March 31, 2021, provided no changes are made to the construction of the motor-compressors.

There are a number of significant similarities and differences between UL 60335-2-34, Fourth, Fifth and Sixth editions. The following provides a summary comparison between these editions:

Fourth Edition, UL 60335-2-34:

- U.S. only Standard; does not apply to products certified in Canada or Mexico
- IEC-based but the numerous deviations eliminate many IEC-based requirements
- Intended to be used with UL 60335-1, Fourth Edition
- Not applicable to motor-compressors having (or intended to use) electronically operated or protected controls and/or circuits
- Covers motor-compressors rated 0 – 600V
- Retains many of the legacy requirements and tests from the Standard for Hermetic Refrigerant Motor-Compressors, UL 984 (which was withdrawn on December 31, 2017), such as the:
 - Locked-Rotor Current Measurement
 - Off Cycle Crankcase Heating Test
 - Internal Motor-Protector Strength/Calibration Tests
 - Outdoor-use (Rain) Test
 - Motor-Compressor Housing Strength Test (typically based on 5 times design pressure)
 - Gasket Accelerated Aging Test
 - Nonmetallic Enclosure Mold Stress Relief Test
 - Vibration Test
- Detailed and prescriptive Compatibility Test - Allows insulating material compatibility to be determined by using motorettes, coillettes or individual insulating material parts

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Three UL 60335-2-34 Standards – Summary Comparison

Fifth Edition, UL 60335-2-34:

- Trinational Standard; applies within the U.S., Canada and Mexico
- IEC-based with relatively few deviations, relying primarily on the IEC-based requirements
- Intended to be used with UL 60335-1, Fifth Edition
- Applies to motor-compressors having (or intended to use) electronically operated or protected controls and/or circuits
- Covers motor-compressors rated 0 – 600V
- Retains only a few of the legacy tests (from UL 984), such as the:
 - Locked-Rotor Current Measurement
 - Gasket Accelerated Aging Test
- Introduces a new Internal Motor-Protector Strength/Calibration Test
- Adds Clauses AADV.4 and AADV.5 for motor-compressors using an electronic circuit
- Clause AADV.5 requires a single test and is conducted at the worst-case condition
- Nonmetallic requirements in Annex 101.DVDD added to those in Clause 30
- Overly brief Compatibility Test:
 - No specific test requirement provided but simply indicates that refrigerants, oils and insulating materials are to be compatible
 - Compliance can be demonstrated by an “appropriate certificate” provided by the motor-compressor manufacturer
 - “Appropriate certificate” is not defined by the Standard.

Sixth Edition, UL 60335-2-34:

- Binational Standard; applies within the U.S. and Canada. This edition does not apply to motor-compressors certified in Mexico.
- More deviations than the Fifth edition, but still relies primarily on the IEC-based requirements
- Intended to be used with UL 60335-1, Sixth Edition
- Applies to motor-compressors having (or intended to use) electronically operated or protected controls and/or circuits
- Covers motor-compressors rated 0 - 15,000 volts
- Retains a few legacy (UL 984) tests, similar to Fifth Edition
- Introduces a new Positive Temperature Coefficient Starting Relay (PTCR) Test:
 - Required for all motor-compressors provided with a PTCR
 - Involves increasing the voltage across the PTCR until it fails or ultimate results are obtained
 - 30 sample PTCRs are required for this test.
 - Adds a new Maximum Rated Current (MRC) marking:
 - Required for electronically operated or protected motor-compressors
 - Based on values obtained during Clause AA.4 test
- Requires determining motor-compressor maximum current at any operating condition including locked-rotor
- Includes new tests to provide alternate means of complying:
 - Alternate method for using single-phase supply source when conducting Primary Single Phase Failure Test on 3-Phase motor-compressors
 - Optional Pressure (Strength) Test
- Annex AA.4 similar to AADV.4 in Fifth Edition except includes test for R-744 (CO₂)
- Annex AA.5 differs from AADV.5 in Fifth Edition and requires multiple tests to determine the worst-case condition; includes tests for R-744 (CO₂)
- Nonmetallic requirements in Annex 101.DVC added to those in Clause 30
- Compatibility Test:
 - Generally aligns with Fourth Edition
 - Allows testing of motorettes, coillettes or the individual insulating material parts
 - Specifies testing of insulating materials in motor-compressors not using any oil (such as those with magnetic bearings)

The Sixth Edition is expected to remain active until a future edition of UL 60335-2-34 is published.

For technical inquiries regarding motor compressors, please contact Barry Karnes at Barry.G.Karnes@ul.com.

Now in the Spotlight – A New, Dedicated Standard for Flashlights and Lanterns

In some situations, a single standard is intended to cover multiple items or products. Often times this can work well but, as market demands shift, products evolve to offer new benefits, and manufacturers require a more specific focus to address their needs, a dedicated product standard may become necessary. UL, in remaining constantly in-step with, and responsive to industry needs, has developed a new standard for flashlights and lanterns as a result of our continued awareness.

Originally, flashlights and lanterns were covered under UL 73, Standard for Motor-Operated Appliances, but it became clear that a new standard would be more appropriate to fully address the unique features and performance requirements associated with these types of products. The new UL 1576, Standard for Flashlights and Lanterns, fills this need. The new, comprehensive standard also brings some significant changes that manufacturers should be aware of before designing new products or submitting products for testing.



What is Covered?

Understanding why this change was made is fairly easy: Flashlights and lanterns are not motor operated, and a more comprehensive, consolidated standard was needed. However, there are important aspects of what is and is not covered by the standard. Primarily, the standard is written to cover:

- Battery-powered flashlights and lanterns powered by secondary (rechargeable) batteries and general-purpose primary (non-rechargeable) batteries. However, products requiring general-purpose rechargeable lithium-ion batteries (e.g. type 18650 “button top” batteries) are not covered as variability from one battery design to the next may increase

the risk of fire since the product must be tested together with the specific lithium-ion batteries as a complete system.

- Battery-powered flashlights and lanterns operated and/or charged directly from a line voltage supply, including battery-powered flashlights and lanterns provided with integral battery chargers.
- Automatic flashlights and lanterns which are normally connected to a line voltage supply and, upon loss of the line voltage supply, will turn on the lamp.
- Ultraviolet (UV) flashlights.
- Flashlights with photovoltaic (PV) sources where the PV sources themselves must also meet the requirements of UL 1703, Standard for Flat-Plate Photovoltaic Modules and Panels.

In addition to specifically covering the above products, the standard also recognizes child appealing features that may help to define a product and, in doing so, requires that the product be evaluated accordingly and comply with the applicable requirements in UL 696, Standard for Electric Toys (e.g. lead content). To complement the certifications offered through UL 1576, we can also test the performance of features that resonate with both manufacturers and consumers.

Recognizing Performance

Prior to the ANSI/NEMA FL 1, Flashlight Basic Performance standard, there were no standardized methods for testing or rating flashlight features. Today, this standard allows manufacturers to demonstrate performance measurements to customers, and UL is equipped to perform these evaluations, which cover:

- Light Output
- Runtime
- Peak Beam Intensity
- Beam Distance
- Water Resistance
- Impact Resistance

As these products continue to evolve in response to new technologies and shifts in consumer demand, UL remains agile to the needs of manufacturers. As with all UL Standards, UL 1576 was designed to be updated in response to industry needs. To learn more about this standard or to obtain a quote for testing and certification, contact ApplianceInfo@UL.com.



Introducing UL Product iQ

Our new certification platform marries the longstanding UL certification data relied upon by millions of users with the intuitive design and user-friendliness of a modern search engine.

Locating UL Listed and Certified products and components just got easier. Meet **UL Product iQ**, UL's [next-generation online certification directory](#); offering trusted UL Listing, Classification and Recognition information, powered by a modern search engine platform. This simple and mobile friendly tool features customized dashboards and a powerful algorithm to deliver more accurate and advanced search results and an improved user experience. With new features added regularly, Product iQ is constantly evolving to help you keep pace with the market.

Basic user registration, necessary to use Product iQ, is free and includes access to all certification data. For users with more advanced needs, a premium subscription is also available. With the premium subscription, one can save searches for future reference; tag, group and organize content; and create confirmation letters of UL compliance with one click. This premium subscription can be billed monthly (\$19/month) or annually (\$108/year).

The following FAQ provides more detail:

Why is UL replacing the current Online Certifications Directory with UL Product iQ?

Product iQ is one of several initiatives designed to meet the growing demands of a digital world.

The new directory is built on a modern search engine platform that offers a better user experience, can incorporate more relevant information and support multiple new user features. Product iQ is designed to create new value, support transformation and evolve with changing needs.

It is important to note that the new directory provides the same trusted certification information as the previous UL online certification directory platform and has no impact on testing results or certifications.

What has UL improved with Product iQ? What features are available?

Product iQ is built on a modern digital platform with a streamlined user interface and a fast, robust search capabilities. It offers the features to improve the user experience:

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Introducing UL Product iQ

- Guided keyword search
- Search refinement
- Email search results out of the platform to others

The premium subscription option also grants access to enhanced tools:

- saved searches
- tagging
- confirmation letters

Is Product iQ free to use?

Yes, access to UL's certification information will always be free. After registering, everyone has access to the same certification information as in the old platform at no cost. Users may voluntarily upgrade to a premium subscription that allows them to use the more advanced tools to meet more robust user needs.

What is the future vision for Product iQ?

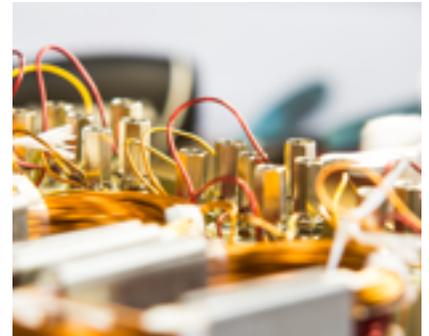
While Product iQ will launch with the content found in the current certification directory, the platform technology was selected based on its ability to expand and grow with the information needs of UL's stakeholders and customers.

It is UL's vision to use this platform to create premium value for UL clients and stakeholders by helping them identify safer, more compliant products and help them promote the same to potential buyers.

Create your UL Product iQ account at productiq.ul.com.

Defined Life Thermal Aging Certification

Manufacturers now have the possibility of a shorter testing timeline for the certification of their electrical insulation systems. UL's Defined Life Thermal Aging (DLTA) certification program can help reduce testing times and, as a result, increase speed to market. This program is intended for insulation systems that are used in applications where the operational designed service life is 5,000 hours or less. The DLTA program offers an alternative to the full thermal aging program and is used to evaluate an EIS with a design life of 1500, 2500, 4000, or 5000 hours. Learn more [HERE](#).



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 507 - ELECTRIC FANS – Proposals generated from the February STP Meeting were processed for ballot, which closed in April. All proposals reached consensus, with several needing to be recirculated prior to publication.

In addition, a task group was formed to continue work on a proposal submitted from the CPSC to include a new thermal condition performance test for unattended fans. CPSC is leading the task group work, which is progressing to an eventual proposal for consideration by the STP and public.

STP 749 – HOUSEHOLD DISHWASHERS – The STP ballot of the proposed 11th edition concluded in May. The ballot did not reach initial consensus but received enough affirmative votes to continue to comment resolution and recirculation. The THC is reviewing the ballot comments received in preparation for recirculation, which is targeted for July.

STP 867 – ELECTROSTATIC AIR CLEANERS – An STP ballot of 22 wide-ranging proposal topics closed in May with all topics reaching consensus. Only one of the topics received a comment, which is under consideration prior to recirculation.

STP 923 – MICROWAVE COOKING APPLIANCES – A new proposal intended to address the potential risks associated with handling hot food and beverage items by young children in connection with microwave oven usage has been circulated for preliminary STP review, closing March 26, 2018. This proposal is the result of a task group that worked diligently to get to this point, carefully considering information available on this topic.

STP 1017 - VACUUM CLEANERS, BLOWER CLEANERS, AND HOUSEHOLD FLOOR FINISHING MACHINES – A new revision cycle is underway. The technical harmonization committee (THC) met in February to review and finalize the draft proposals, prior to passing along to the SDOs for processing. The THC will meet again in July to finalize the draft new (11th) edition, which will then be circulated for review by the consensus bodies and public.

STP 2157 - ELECTRIC CLOTHES WASHING MACHINES, EXTRACTORS, AND DRYERS – New editions were published for UL 2157 (May 28, 2018) and UL 2158 (April 6, 2018).

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. It is anticipated that the third edition UL 2595 will be published in the 4th quarter of 2018.

STP 60335-2-8 – HOUSEHOLD & SIMILAR ELECTRICAL APPLIANCES, PART 2: PARTICULAR REQUIREMENTS FOR SHAVERS – The STP ballot of the 6th edition opened in April, with an early June closing date.

Global Market Access Corner:

Our Global Market Access team is prepared to help you achieve compliance with new requirements around the world. For more information or to contact our experts, visit our Global Market Access site at ul-certification.com.

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

Middle East, G-Mark – Gulf Conformity Tracking Symbol and Surveillance in GCC Member States

By: Gabriella Mazzola / UL Global Market Access Engineering Leader,
Convenor of Working Group 3 of GSO Notified Bodies Cooperation Group for Low Voltage Regulation

As the GCC Standardization Organization (GSO) continues to unify and harmonize regulations throughout GCC countries, member states are increasingly implementing regular surveillance at customs and on the market.

Saudi Arabia has already enforced GSO Technical Regulations and all certification bodies operating under SASO CoC scheme are now mandatorily checking Gulf Conformity Marking (G-Mark) certificates before issuing their shipment certificates.

Emirates Authority For Standardization and Metrology (ESMA) recognizes the G-Mark for market access; if the product displays the G-Mark, the ECAS mark is not required, though achieving the national certification remains mandatory.

Bahrein and Oman enforced regular and strict checks at customs and produced an interesting report of the main findings that resulted in delayed or held imports:

- Gulf Conformity Tracking Symbol (GCTS) not affixed or not readable
- Certificates not properly registered in GSO tracking system or not approved
- Certificates suspended or withdrawn by the Notified Body
- Certificates covering products out of scope
- Certificates based on superseded standards editions

The GCTS is the main tool for customs to perform surveillance. This symbol includes the G-mark (a name that references the mark's shape), the ID number of the Notified Body and the QR code tracking the product certificate in the GSO tracking system.

Manufacturers must pay ensure the GCTS is affixed according to the rules and must also get complete, updated and approved certificates that will grant the smooth import in all GCC countries.

Failure to meeting all requirements may result in shipments blocked in warehouses or, even worse, at custom borders.



How UL can help

UL is active participating in GSO Notified Bodies Cooperation Group for LVE Regulation and can offer expert advice to determine if your product is in scope. We can also provide technical expertise, a worldwide network of CB testing laboratories and qualified staff that can help deliver technical assessments and reports to cover the latest editions of the applicable international standards.

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

[Learn more about UL's G-Mark Services here.](#)

Our Global Market Access team is prepared to help you achieve compliance with new requirements around the world. For more information or to contact our experts, visit our Global Market Access site at ul-certification.com.

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Saudi Arabia, Energy Efficiency – New Standard for Motors

By: Federico Picco / UL Saudi Regulatory Program Expert

Most recently, The Saudi Standards, Metrology and Quality Organization (SASO) published new Energy Efficiency (EE) standards for Saudi Arabia related to single speed, three-phase cage induction motors. This new standard is now based on IEC 60034-30-1: 2014, covers a wider scope and introduces the “exempted” category (motors that are included in the scope, i.e. will have to register in the SASO system, but are exempted from achieving the efficiency requirements.)

Category	Current Standard	New Standard	New Standard Enforcement Date
Motors	SASO 60034-30:2013	SASO 2893/2018	16th August, 2018

IMPORTANT DATES:

16th May, 2018 – New EE labels are required for the issuance of the SASO Certificate of Conformity. Manufacturers intending to ship products into Saudi Arabia must have them tested by a testing laboratory registered with SASO. The report and required documentation must then be submitted to register these products.

16th August, 2018 – Saudi customs will block the shipment of motors that do not comply with SASO 2893/2018.

STAY INFORMED WITH UL

UL continues to monitor the Saudi Energy Efficiency standards as test methods move toward finalization. In addition to providing testing and certification for appliances in accredited laboratories registered with SASO, we keep our customers aware of changes by becoming one trusted source of compliance information and supporting the registration process of products. UL is also a SASO Notified Body, allowing us to verify compliance, deliver the CoC and streamline customs clearance.

Saudi Arabia, SALEEM – New certification scheme for all products

By: Federico Picco / UL Saudi Regulatory Program Expert

The new Saudi certification scheme SALEEM will replace the current Saudi Conformity Assessment program (SASO CoC) scheme and will operate via the new SABER system, SASO’s electronic service created to facilitate the process of entering goods and products to the Saudi market.

The SALEEM scheme will be based on two different certification steps: Type Approval Certificate of Conformity (three-year validity) and Shipment Certificate of Conformity (to be issued for each shipment, similar to the current SASO CoC).

Requirements for Type Approval Certificate of Conformity and registration in the SABER System will be different according to the level of risk of the product.

Level of Risk	Requirements
Low risk (Free Trade)	Self-Declaration and Technical File
Medium Risk	Evaluation according to specific product Technical Regulation and existing product certification, when applicable (for example G-Mark Certificate)
High Risk	SASO Quality Mark License

All products entering Saudi Arabia will need to have both a Type Approval Certificate of Conformity and a Shipment Certificate of Conformity issued by an accredited Conformity Assessment Body via the SABER system.

SALEEM is still under development and in a voluntary state.

Mandatory implementation is still to be officially confirmed by SASO, but an announcement is planned for December 1st 2018.

How UL can help

UL is expertly qualified to assist companies in demonstrating their products meet the essential requirements of Saudi legislation and can help customers achieve compliance testing according to the applicable international standards.

In addition, UL Certification Offices in EU, USA and China are SASO authorized Conformity Assessment Bodies (CABs) in the new SALEEM scheme and are officially accredited in the SABER system to issue Type Approval Certificates of Conformity and Shipment Certificates of Conformity.

Global Market Access Corner

Saudi Arabia, SASO CoPC – Details About Certification Process

By: Federico Picco / UL Saudi Regulatory Program Expert

The new Metrology and Quality Organization (SASO) IECCE CB Recognition Program, also known as the SASO Certificate of Product Conformity (SASO CoPC), currently covers the following product categories:

- Mobile phones
- Mobile chargers (all variety of charges: adaptors & cables, wireless, power banks)
- Mobile USB cables
- Mobile batteries

The implementation date of the following product categories, soon to be introduced SASO, are yet to be officially announced:

- Luminaires and lamps
- Water pumps
- Dishwashers
- TVs
- Laptops
- Tablets

SASO CoPC will be based upon the mandatory submission of a valid CB Test Certificate and CB Test Report. Saudi national differences shall also be covered, as applicable. Submittal of the required information must be via the SASO on-line system. The CoPC will be valid for one year and will require annual renewal.

How UL can help

UL is 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 applicable international standards, national differences and regulatory requirements.

UL National Certification Bodies in all regions can supply CB Test Certificates in a reliable and effective way.

UL also has Arabic speaking staff who are experts in SASO's processes, on-line systems and requirements.



Saudi Arabia, SASO Quality Mark – SQM Mandatorily Required for Gas Appliances

By: Federico Picco / UL Saudi Regulatory Program Expert

As a result of the mandatory implementation of the SASO Technical Regulation for Gas Appliances and their Accessories, No. 04-03-16-156 surveillance on the market has now become strict.

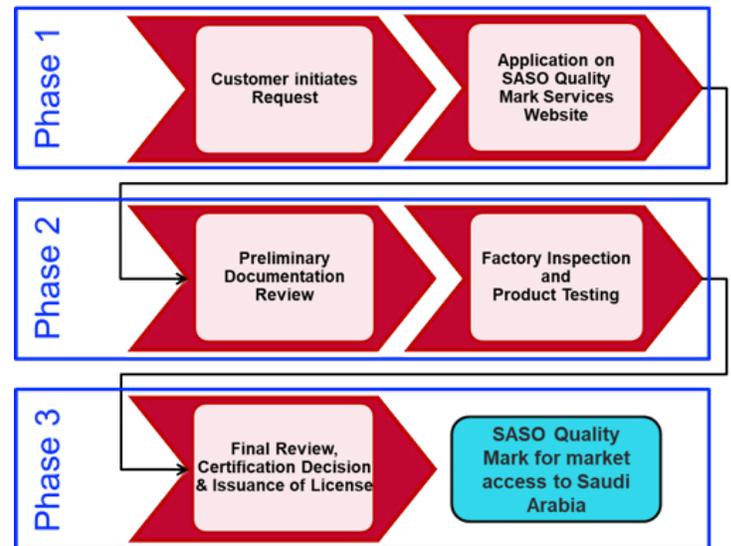
Saudi Customs are blocking the shipments of gas appliances entering Saudi Arabia unless marked by the SASO Quality Mark (SQM), the mark approved by SASO indicating conformity of the product to Saudi Technical Regulation for Gas Appliances and their Accessories (04-03-16-156) and to Saudi standards.

Manufacturers of gas appliances are required to obtain the SASO Quality Mark license and apply the SQM logo on their products to be able to export to Saudi Arabia.

List of gas appliances in scope of SQM

Products	HS Codes
Cooking Stoves (Cookers - Ovens - Grills)	73211110
	73211190
	85166000
	73211120
Heaters Powered by Liquefied Petroleum Gas (LPG)	73218110
	85162910
	73211120
Water Heaters Powered by Liquefied Petroleum Gas (LPG)	85166000
Gas Pressure Regulators	90322000
Gas Leak Alarm Systems	84818090
Non-refillable Metallic Cylinders for Liquefied Petroleum Gas Intended for Portable Burners	36061000
Portable Burners	73211190
Refillable Metallic Cylinders for Liquefied Petroleum Gas	73110090
Gas Supply Hoses	40091190
Gases Cylinders Valves	84818030

The process



How UL can help

UL is expertly qualified to assist companies in demonstrating their gas appliances meet the essential requirements of Saudi legislation and can help customers interfacing with Saudi Standards, Metrology and Quality Organization (SASO), as well as manage their application for the SQM.

In addition, UL laboratories are fully equipped and accredited to carry out tests and issue valid test reports according to SASO 167/2015 and SASO 168/2015.

Tradeshows & Webinars

Contact UL industry experts if you'd like to setup an in-person meeting at any of the listed tradeshows or if you have any general questions. We're here to help!

IFA 2018

August 31 – September 5, 2018
Berlin, DE

[Learn more >](#)

The Green Industry & Equipment Expo 2018

October 17-19, 2018
Louisville, KY

[Learn more >](#)

International Pool, Spa & Patio Expo 2018

October 31 – November 2, 2018
Las Vegas, NV

[Learn more >](#)

AHRI Annual Meeting 2018

November 11-13, 2018
Tucson, AZ

[Learn more >](#)

On-Demand Webinars:

UL 325 External Entrapment Protection Devices

During this free webinar you will hear from experts about the latest requirements in UL 325 for external entrapment protection devices, as used in door and gate systems.

[Click here to view recording >](#)

UL 325 Canadian and US Requirements Updates

Hear from experts about the newest product safety requirements in Canada for automated door and gate operators and systems, what you can expect and what impact it may have on your products.

[Click here to view recording >](#)

Gate Operator Updates for 2018

During this free webinar you will hear from UL experts about the latest requirements in UL 325 that affect gate operators and systems in 2018.

[Click here to view recording >](#)

Gas Appliance Regulation – EU Certification Updates

For those manufacturers that are interested in sending gas-fired appliances and equipment to EU member states, this webinar will provide an overview of the framework that is in place.

[Click here to view recording >](#)

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