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JUL/06/AUG

YOUR KEYS TO NATIONAL AND INTERNATIONAL COMPLIANCE

## MAKING LARGE HOUSEHOLD EQUIPMENT APPROVALS A RELAXING EXPERIENCE

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## ● The Inside View

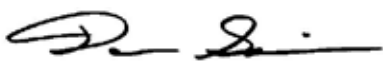
Dear valued customers,

Innovation has taken over the spa and hot tub industry. Household appliances are not only found in stores and homes but are now being offered in spas and hot tubs. Many spas are now including state-of-the art surround systems, stereos, DVD/CD, remote control, pop-up and hidden speakers and more. These sophisticated appliances have become the new trend in spas and are becoming a permanent fixture in spas everywhere. With that said, it is more important than ever to practice electrical safety in order to prevent entrapment, death and injuries.

In this issue of *Market Access*, the cover story will focus on safety requirements that must be met to electrical household appliances found in spas, whirlpools, etc. that are being sold in the EU, U.S., Canada and Australia. The article "Large Household Equipment for Leisure and Relaxation" goes more into detail on the mandatory requirements for manufacturers and retailers in order to sell their products to their targeted countries.

We will also provide an overview on such topics as: Argentina's approval process for telecommunication equipment, committee F40 and the standards on declarable substances, Fieldbus Foundation and safety-instrumented systems, a new partnership for pressure vessel industry inspection and conformity services and so much more.

Sincerely,




**Dan Sullivan**

PRODUCT SAFETY DIVISION MANAGER,  
TÜV RHEINLAND OF NORTH AMERICA, INC.

*Mission Statement: To provide our clients with a valuable service that exceeds their quality and efficiency expectation by consistently improving our processes, ensuring the highest level of technical expertise while maintaining our position at the forefront of industry advancements.*

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*Cover Story*● **Product Safety**

## Large Household Equipment for Leisure and Relaxation Worldwide Safety Approvals for Whirlpools, Spas, Swimming Pools and Saunas

*Authored by Marc Krugmann, Product Safety Engineer*

A significant amount of large household equipment used for leisure and relaxation is being produced in the United States and in Canada. Such appliances are whirlpools and spas, as well as swimming pools combined with whirlpools and saunas. The market for these devices is mainly the United States, Canada, Europe and recently also Australia. TÜV Rheinland of North America, Inc. offers worldwide safety approvals to allow manufacturers to sell their products to these countries, while promoting a safe and relaxing use for the consumer.


With the rapidly growing development of audio, video and computer devices, whirlpool manufacturers want to offer many entertainment features to their clients. Spas and whirlpools are not just consisting of pumps, water jets and a temperature controller. Modern spas and whirlpools offer a variety of entertainment features, such as stereo devices, video and DVD players, and even computer with floating keyboards using Bluetooth™ technology are available on the market. Saunas, on the other hand, utilize not only electrical heater devices with stones, modern sauna heaters are radiant heaters, such as infrared heating devices. These appliances have to fulfill international safety requirements to prevent any harm or hazards to the user.

### Requirements in the European Union

Electrical household appliances, which are intended to be sold in the European Union, have to be tested and evaluated according to the applicable national



... promoting a safe and relaxing  
use for the consumer.



safety standards. CE Marking is required and although third-party certification is not always mandatory, most manufacturers rely on an accredited third-party approval rather than a self-declaration. Strict European consumer protection laws require from retailers and other sellers a high degree of safety and performance. Also, a national test mark, issued and backed up by a recognized test house can be a significant advantage in the market place.

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**Cover Story**  
**● Product Safety**

**Large Household Equipment for Leisure and Relaxation (continued)**

The EN 60335-1 in conjunction with the relevant EN 60335-2 covers the range of such large household appliances used for relaxation. Components used within such appliances have to be tested according to EN 60335-1 and the relevant EN 60335-2 as well. Table 1 shows a list of applicable standards for a whirlpool.

Additional electronic features, such as CD player, computer game console and telephone, have to comply with the requirements of EN 60335-1 and EN 60335-2-60. Certification according to EN 60950 (Office Equipment) and EN 60065 (Audio and Video Equipment) is not sufficient. It has to be noted, that all entertainment equipment has to be supplied via an IPX4-rated safety isolation transformer. The standard EN/IEC 60529: Degrees of protection provided by enclosures (IP code) describes a system for classifying the degrees of protection provided by the enclosure of electrical equipment.

Saunas and dry baths as well as sauna heaters are being certified according to EN 60335-1 in combination

with EN 60335-2-53 (Particular Requirements for Sauna Heating appliances). Special attention should be drawn to the fact that some sauna models do not use the well-known heater with stones rather than Infrared sauna heating devices. However, the luminaire standard is not applicable for those heaters. They have to comply with EN 60335-1 and EN 60335-2-53.

Timers are an essential component of saunas and whirlpools, since they ensure that the user is not exposed too long to hot temperatures. Timers have to fulfill the requirements of EN 60730 (Automatic Electrical Controls for Household and Similar Use: General Requirements) and EN 60730-2-7 (Particular Requirements for Timers and Time Switches). Timers are part of a whirlpool or sauna controller and are therefore also subjected to relevant tests of EN 60335-1 and EN 60335-2-53.

**Requirements in the United States and Canada**

IEC 60335-1 (Household Equipment) and IEC 60335-2 with it's various applications are nearly worldwide harmonized. The United States and Canada however have their own versions for house hold equipment, in particular for whirlpools and saunas. Table 2 lists the various standards for the United States and Canada.

**Table 1**

	EN 60335-1	EN 60335-2-60	EN 60335-2-41	EN 60925
Whirlpool / Spa	X	X		X
Spa Controller	X	X		X
Water Heater	X	X		X
Pump	X		X	X

**Table 2**

	United States	Canada
Electric Spas and Associated Equipment	UL 1563	CAN/CSA-C22.2 No. 218.1-M89
Electric Heater Elements	UL 1261	CAN/CSA-C22.2 No. 72-M1984
Pumps for Hot Tubs and Swimming Pools	UL 1081	CAN/CSA-C22.2 No. 108-1975
Saunas and Dry Bath Heaters	UL 875	CAN/CSA-C22.2 No. 164-M91

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**Cover Story**  
**● Product Safety**

**Large Household Equipment for Leisure and Relaxation (continued)**

Timers are subjected to different standards to fulfill the national requirements of the United States and Canada. The standards for the United States are harmonized with current IEC standards and have nearly identical names. Please refer to Table 2a.

The splash test and the simulated rain test are described individually in the UL 1563 and the CAN/CSA-C22.2 No. 218 and are not harmonized with the EN/IEC 60529.

**California Energy Commission**

The state of California has additional requirements in order to satisfy local energy regulations in order to control use of energy and to enhance energy conservation. The commission has five major responsibilities:

- Forecasting future energy needs and keeping historical energy data
- Licensing thermal power plants 50 megawatts or larger
- Promoting energy efficiency through appliance and building standards
- Developing energy technologies and supporting renewable energy
- Planning for and directing state response to energy emergency

Based on these responsibilities the California Energy Commission issued Appliance Efficiency Regulations,

which cover energy savings requirements for household appliances. Spas and whirlpools, which are intended to be sold and operated in California have to comply with these regulations. Considering a spa as an example, the California Energy Commission requires the following: The water temperature of a spa has to stay at 102°F for a specified time frame. The power, which is used to keep the water at this temperature, of portable electric spas manufactured on or after January 1, 2006, shall be not greater than 5(V<sup>2</sup>/3)Watts where V = the total volume, in gallons.

**Requirements for Australia**

Australia divides spas and whirlpools into two categories:

- Spas and whirlpools for indoor use, which are drained after each use. These spas are tested according to AS/NZS 60335.1 in conjunction with AS/NZS 60335.2.60. Both AS/NZS standards are harmonized with the IEC 60335-1 and the IEC 60335-2-60 for spas and whirlpools.
- Spas and whirlpools for outdoor use. These appliances are for outdoor use and not drained after every use. Australia requests certification according to AS/NZS 3100: General requirements for electrical equipment in conjunction with AS/NZS 3136: Electrical equipment for spas and swimming pools. All major components of the spa or whirlpool under test have to comply with both standards.

Entertainment equipment has to comply with the relevant IEC standards, but it will be tested as part of the appliance. ▲

Table 2a

	United States	Canada
Automatic Electrical Controls for Household and similar use; General Requirements	UL 60730-1	CAN/CSA-E60730
Automatic Electrical Controls for Household and similar use; Particular Requirements for Timers and Time Switches	UL 60730-2-7	CAN/CSA-E730-2-7
Automatic Electrical Controls for Household and similar use; Particular Requirements for Temperature Sensing Controls	UL 60730-2-9	CAN/CSA-E730-2-7

● **Late Breaking News**

**International Testing and Compliance Company Makes Its Mark  
New GS Mark is Now Combined with the TÜVdotCOM Mark**

TUV Rheinland of North America, Inc. is pleased to announce that the TÜV Rheinland GS Mark is now combined with the TÜVdotCOM mark. Certificates issued from June 1, 2006 will display the new GS Mark (see below). All existing GS certificates remain valid. This change will increase the value of our GS Mark to customers by providing the TÜVdotCOM web address where specific product information can be found. TÜVdotCOM is an effective marketing tool which helps to differentiate companies and products from the competition.

TUV Rheinland test marks ensure consumers that they are buying an independently tested, safe product supported by regular surveillance inspections. Feel free to use the mark in advertising if you wish to do so. To receive a printable version of this mark, please go to [www.us.tuv.com/downloads/index.html](http://www.us.tuv.com/downloads/index.html).

If you have any questions, please contact a regional salesperson or call 1-TUV-Rheinland (1-888-743-4652).

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*TÜVdotCOM mark.*



*Old GS Mark.*



*New GS Mark combined with the TÜVdotCOM mark.*

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## ● Pressure Equipment

### **New Partnership Delivers Global Conformity Assessment Services for Boiler and Pressure Vessel Industries**

#### **Providing Innovative and Practical Engineering, Inspection and Management Solutions**

*Authored by Bernie Hrubala, Pressure Equipment Division Manager*

TÜV Rheinland Group and Authorized Inspection Associates, LLC have come together to be a global provider of comprehensive third-party independent inspection, conformity assessment and consulting services for the pressure equipment industry. The new entity – TUV Rheinland AIA Services, LLC. (TUV AIA) – is proud to announce that they are among the few American Society of Mechanical Engineers (ASME) Authorized Inspection Agencies (AIA) that has the capability of providing these services worldwide.

TUV AIA will be a global provider of the ASME-authorized inspection services for new construction of boilers and pressure vessels. These services are an integral part of TÜV Rheinland Group's (TRG) core competencies and are in line with TUV AIA's expanded product portfolio. This partnership allows access to TUV AIA's network of thousands of experts, as well as the global resources that TÜV can provide. TUV AIA's complete knowledge of ASME and European regulations and certification services provide a strategic competitive advantage to any manufacturer to utilize.

TUV AIA Services delivers customer-focused, high-quality inspection and conformity certification services for the boiler and pressure vessel industries, by providing innovative and practical engineering, inspection and management solutions. TUV AIA will work with clients to improve their performance, quality



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## ● Pressure Equipment

### New Partnership Delivers Global Conformity Assessment Services for Boiler and Pressure Vessel Industries (continued)

and profitability. The inspection agency will also give clients a clear understanding of their business needs, through value-added engineering, practical consulting and global conformity compliance.

The ASME code is well known and accepted in over 115 countries for the manufacturing of pressure equipment. Customer inquiries for ASME inspection services will increase in the future, focused mainly on Europe, East Asia and African market. The application of the ASME code is widespread throughout many industry sectors, particularly piping, oil and gas and nuclear technologies.

Currently there are over 4,500 ASME-accredited manufacturers worldwide. Asia, especially China, is the fastest growing market, offering many opportunities for these services.

Authorized Inspection Associates LLC, based in Houston, TX, has twenty years of experience developing and providing ASME Code inspections as an ASME Authorized Inspection Agency.

“The partnership we have created with Authorized Inspection Associates puts TÜV Rheinland Group in place to be the foremost provider of global independent third-party inspection and certification services in the boiler and pressure vessel industry,”



remarked Stephan Schmitt, President and CEO of TÜV Rheinland of North America, Inc.

TÜV AIA Services will partner with its customers to help them tackle the difficult process of conformity, assessment and compliance with the many standards and regulations that exist worldwide. This includes the ASME/PED/TPED and ISO standards as a single provider, which gives the customer the competitor's edge. The company will rely on its technical and intellectual knowledge, global presence, and over 130 years of experience to make TÜV Rheinland AIA Services a global gateway for companies seeking international compliance for their products.▲

**TÜV Rheinland AIA Services, LLC**  
15915 Katy Freeway  
Houston, TX 77056

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## ● International Approvals

### How to Make Telecommunication Imports into Argentina an Easier Call

#### Easing the Homologation, Codification and Authorization Processes

*Authored by Juan Di Pietro, TÜV Rheinland Argentina and Peter Merguerian, TÜV Rheinland of North America, Inc.*

The rate of telecommunication equipment imported into Argentina has increased considerably over the last two years. Regulations on these types of products in the field of mandatory homologation at the "Comisión Nacional de Comunicaciones" (CNC) is a process which varies from product to product. TÜV Rheinland of North America, Inc. together with its affiliate office in Argentina can make this process seamless for its customers.

With the implementation of Decreto 1185/90 (published June 22, 1990) and Decreto 764/2000 (published September 3, 2000), the Argentinean Government appointed the "Comisión Nacional de Comunicaciones" (CNC) as the official body responsible for the enforcement of the homologation, codification and authorization processes of telecommunication equipment, as well as registration of companies that commercialize these products.

Approved telecommunication equipment is registered in Registro de Actividades y Materiales de Telecomunicaciones (RAMATEL). After the approval process, the information of the importers and their homologated/codified/authorized products will be automatically transferred to the RAMATEL Registry, controlled by the CNC.

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**TÜV, together with its affiliate in Argentina, can make the regulation on telecommunication equipment seamless.**

## ● International Approvals

### How to Make Telecommunication Imports into Argentina an Easier Call (continued)

The three different kinds of telecommunication approvals granted by the CNC are as follows:

#### 1. Homologation

Permission granted by the CNC through a Resolution to a RAMATEL-registered local manufacturer or importer, allowing the commercialization of certain telecommunication equipment in National territory, after the fulfillment of the CNC standards for the particular equipment. For this homologation process, telecom equipment must be tested in a local laboratory accredited by the CNC.

#### 2. Codification

Permission granted by the CNC through a resolution to a RAMATEL-registered local manufacturer or importer, allowing the commercialization of a certain telecommunication equipment in national territory, in those special cases where there are no CNC standards.

#### 3. Authorization

Restricted permission granted by the CNC either to a person or company, allowing the utilization of a certain telecommunication equipment. There are two cases for authorization:

a) A company or a person imports a telecommunication product for own use (not for commercial purposes). For example, a telecommunications provider importing a microwave transmitter for own use in providing telecommunication services.

b) A company or a person manufactures/produces a telecommunication product for own use (not for commercial purposes). For example, a local pharmaceutical company installs test equipment at their factory and develop a telecom product for communication with the test equipment.

For homologation/codification/authorization, the RAMATEL-registered local manufacturer or importer or person is responsible for marking the telecom equipment with the CNC prescribed homologation number. The approval process is to be carried out by each entity applying for approval. For example, under homologation, if two Argentinean companies are importing the same product, each must provide samples for testing at a local CNC-accredited laboratory and each will receive independent homologation numbers to be marked on the telecom products.

#### The homologated/codified/authorized equipment must be marked with the following:

- Manufacturer's name or trademark
- Model designation
- Homologation/codification/authorization number
- Serial number
- RAMATEL-registered local manufacturer's or importer's name (optional)

Please note that the compliance of the above mentioned requirements do not imply the compliance of Electrical Safety requirements, according to Resolution 92/98.

To learn more or to receive a customized quote, please call 1-TUV Rheinland (1-888-743-4652). [▲](#)

## ● Functional Safety

### Internationally Renowned Testing Agency Approves Safety Instrumented Systems Fieldbus Foundation Protocol Now Supports SIL3 Protection

In January 2006, the Fieldbus Foundation announced that TÜV Rheinland Industrie Service GmbH, Automation, Software and Information Technology, a global, independent and accredited testing agency, had granted Protocol Type Approval for its Safety Instrumented Systems (SIS) specifications.

The foundation's SIS specifications are in compliance with International Electrotechnical Commission (IEC) 61508 standard (functional safety of electrical/electronic/programmable electronic safety-related systems) requirements up to, and including, Safety Integrity Level 3 (SIL 3).

#### Move Clears Way for Standards-based Devices

With the TÜV Protocol Type Approval, Fieldbus Foundation technology has been extended to provide a comprehensive solution for safety instrumented systems in a wide range of industrial plant applications. The specifications enable manufacturers to build Fieldbus Foundation devices in compliance with IEC 61508. Third-party test agencies such as TÜV will certify that these devices are suitable for use in safety instrumented systems. End-users will be able to choose devices meeting the requirements of IEC 61511 (functional safety: safety instrumented systems for the process industry sector) from multiple suppliers, instead of being restricted to devices designed specifically for a proprietary safety system platform. IEC 61511 is also available as an ANSI/ISA Standard: ANSI/ISA-84.00.01-2004.

#### Cooperative Effort Achieves Major Milestones

The SIS project was initiated by end users and approved by the Fieldbus Foundation's board of directors in October 2002. Companies participating in the project include: ABB, BP, Chevron, Cooper Crouse-Hinds GmbH, DuPont, Emerson Process Management, E+H Process Solutions, ExxonMobil, Fieldbus Diagnostics, Fieldbus Inc., Flowserve, HIMA, Hirshmann, Honeywell, ICE-Pros Inc., Invensys/Triconex, Magnetrol, Metso Automation, MTL, Relcom, R&M Industrie Service, Rockwell Automation, Rotork Control Systems, Saudi Aramco, Shell Global Solutions, Smar, Softing, TopWorx, TÜV, Tyco/Westlock and Yokogawa.

Westlock Controls' senior software engineer, Vijaykumar Soni, stated, "Our participation in the project team has allowed Westlock to be in the forefront of the development of products utilizing this exciting technology." He further noted, "Westlock understands the potential of the technology to provide the industries we service with best-in-class solutions for their SIS applications."

The development team achieved its first major milestone at the end of 2003 with TÜV approval of the overall system concept. The development team met with external experts at a meeting hosted by Shell Global Solutions in Amsterdam, The Netherlands, in March 2004 to review the initial specifications. Comments from this review were resolved and the

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## ● Functional Safety

### Internationally Renowned Testing Agency Approves Safety Instrumented Systems (*continued*)

management team developed the top-level project plan for laboratory validation testing.

During the lab test phase, conducted at the Rheinhold & Mahla (R&M) Industrie Service facility in Frankfurt, Germany, each prototype supplier independently implemented the foundation's safety instrumented systems specifications. In parallel, the test team separately developed test cases and prepared expected test results.

#### Specifications Meet the Demands of Plant Safety

According to the Fieldbus Foundation's director of technology development, David A. Glanzer, extensive laboratory testing and application analysis has verified that the foundation's safety instrumented systems technology meets the needs of industrial end-users, who regard these systems as critical to their overall plant operating strategy.

"TÜV Type Approval will help meet the growing worldwide demand for commercial, standards-based, safety-instrumented system products incorporating Fieldbus Foundation technology," said Glanzer. "End-users can now adopt the powerful diagnostics available with Fieldbus Foundation, and at the same time, maintain the protection in a SIL3 environment. No changes were required to the existing H1 protocol to add the safety instrumented systems protocol extensions, clearly indicating the value of the comprehensive, forward-thinking design of Fieldbus Foundation."



#### End Users Anxious for Fieldbus Foundation Safety Solutions

Process industry leaders have voiced their support for Fieldbus Foundation SIS technology. Many end-users are anxious to move away from proprietary safety system platforms in favor of open, interoperable, Fieldbus-based safety solutions.

Saudi Aramco, a key global oil and gas producer, has been at the forefront of efforts to spur development of Fieldbus Foundation safety products. Patrick Flanders, engineering specialist for Saudi Aramco's Process Instrumentation Division, said, "FF-SIS offers the potential to provide close integration of the complete emergency shutdown loop. This close integration reduces the installation cost. In addition, integration improves the capabilities of field devices in providing self-diagnostic information, which is communicated directly to the safety logic solver. At Saudi Aramco, we see this as a breakthrough in the advancement of Safety Instrumented System design." ▲

## ● Product Safety

### ASTM F40 Committee Addresses Standards on Declarable Substances in Materials “RoHS and WEEE” Legislation Affects Europe, Asia, Australia and California

Authored by Geoffrey Bock, RoHS/WEEE Manager

Editor's Note: This article has been reprinted with permission from Standardization News.

“RoHS and WEEE” – Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment and Waste of Electrical and Electronic Equipment – is blossoming into a global issue that not only encompasses the strict European legislation, but also Asia, Australia and, as of Jan. 1, 2007, California.

#### ASTM Responds to Industry Need, Creates New F40 Committee

ASTM is a well-known international leader in creating standards relating to industry-specific needs, and it's hard to imagine a stronger need than creating a committee dedicated to developing standards to assist industry in conforming to legislation that requires declaring substances in materials. ASTM has done exactly that, with ASTM F40 on Declarable Substances in Materials. The committee is up and running, and the first standard is due to hit the industry this summer.

Declaring a substance in a material is not an easy task. The F40 committee is combining the efforts of interested industry professionals to create a set of standards that will identify the methods that should be used in the process.



#### Some Considerations Related to the RoHS Directive

Although the RoHS directive is setting the industry standard on how manufacturers will ultimately need to redesign their equipment, the directive lacks specific guidance. The directive is a generic demand that requires specific test methodology and procedures.

The RoHS directive forces manufacturers to do their homework. Firms must gather material declarations from suppliers, analyze materials for content of suspected substances and ultimately self-declare compliance by July 1, 2006, that their products do not contain more than the maximum permitted levels of the listed banned substances. That's a tall order! Most manufacturers are expecting local chemical labs to test and identify the levels of concern in their materials using known methods and standards. What's lacking here? There is a lack of test methods and standards to identify these substances correctly in electro-technical products.

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## ● Product Safety

### ASTM F40 Committee Addresses Standards on Declarable Substances in Materials (*continued*)

Another interesting aspect is the term “homogenous material” used in the RoHS directive, which is not as simple as declaring conformance per part number. A single part number could have many homogenous materials (HMs). Is the coating on a fastener and the substrate itself considered a single HM? Not according to the RoHS directive. In fact, the coating and the substrate are considered separate HMs although it is virtually impossible to measure the amount of the coating on the substrate correctly. This situation will be addressed in the ASTM F40 set of standards.

The second hurdle for design engineers is to identify “future materials” to eliminate the need for actual material sampling. What types of plastics are involved? Are industry standard metals and alloys with or without coatings being used? Do the polymers contain cadmium for pigmentation properties? Can hexavalent chromium coatings on substrates be replaced by stainless steels or other materials? Answering these questions and others continues to prove to be a serious challenge for manufacturers and their suppliers as well.



#### Role of the F40 Committee

Subcommittee F40.04 on Existing Document Research/Liaison has been formed to work with the International Electrotechnical Commission and other ASTM committees to reduce the overall impact of creating new standards from scratch. In fact, many test methods are available for testing various substances in materials and the committee does not want to reinvent the wheel. Its members want to ensure that various standards committees are aware of F40's efforts.

All in all, the group's efforts have a standard goal: To properly declare substances in materials, to support the industry without doubling efforts and ultimately create a tool for manufacturers of electrical and electronic equipment to use when declaring their materials not only to authorities, but to any interested party requiring that information. ▲

... the group's efforts have a standard goal: To properly declare substances in materials, to support the industry without doubling efforts and ultimately create a tool for manufacturers of electrical and electronic equipment to use when declaring their materials...

## ● News

### **Detroit Open House and Barbeque Draws in a Crowd Michigan-Based Testing and Certification Facility Shares Capabilities and Good Times**

TUV Rheinland of North America, Inc. recently held a barbecue and open house on June 8 from 11:00 a.m. to 6:00 p.m. that drew in over 60 attendees. Customers who stopped by received a complimentary stein and apron. All attendees names were placed in a drawing, the winners were Lindsay Harding of Ford Motor Company who won a Nano iPod and David Carlson from General Motor SPO who won the iPod shuffle.

Geoffrey Bock, TUV Rheinland WEEE/RoHS Manager, gave an outstanding presentation on WEEE/RoHS, including a demonstration on how testing is performed.

The open house was a chance for the Detroit office to introduce some of its capabilities to its customers such as:

- WEEE/RoHS Testing and Management Systems
- CE Testing- Appliance, Industrial Machinery, Medical Devices
- GS Marking and Global Access
- Automotive
- QRS: ISO 9001-ISO 13485-TS 16949-ISO 14001
- NRTL/Field Evaluation Listing & Labeling
- EMC Testing
- Life Cycle Management

If you were not able to attend this event, but are interested in an onsite seminar at the facility, please contact 1-TUV-RHEINLAND (1-888-743-4652).

Furthermore, due to the success of the open house, the Detroit event will be held next year as well. Please call now if you are interested in being placed on a mailing list. [▲](#)



*TUV open house attendees mix and mingle.*



*Geoffrey Bock, TUV Rheinland WEEE/RoHS Program Manager (middle) discusses WEEE/RoHS issues with customers.*



*TUV guests network at Detroit facility.*

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## ● TUV Resources

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### Tradeshows

To learn more, visit [www.us.tuv.com/tradeshows](http://www.us.tuv.com/tradeshows)

#### **IEEE Int'l Symposium on Electromagnetic Compatibility**

Oregon Convention Center, Portland, OR  
August 14-18  
Booth #2221

#### **IAEI-Savannah, GA**

DeSoto Hilton Hotel, Savannah, GA  
July 19-21  
Booth #TBA

#### **IAEI-Western- Traverse City, MI**

Grand Traverse Resort and Spa, Traverse City, MI  
September 18-20  
Booth #TBA

#### **Northern California Facilities Expo**

Santa Clara Convention Center, Santa Clara, CA  
September 20-21  
Booth #TBA

#### **NECA Expo**

John B. Hynes Convention Center, Boston, MA  
October 7-10  
Booth #1618

#### **RAPS**

Baltimore Convention Center, Baltimore, MD  
October 15-18  
Booth #518

#### **ISA Expo**

Reliant Center, Houston, TX  
October 17-19  
Booth #2949

#### **IEEE Product Safety Engineering Symposium**

Hyatt Regency Irvine, Irvine, CA  
October 23-24  
Booth #TBA

#### **Aerospace Testing Expo**

Anaheim, CA  
November 14-16  
Booth #1456

### Seminars

To learn more, visit [www.us.tuv.com/seminars](http://www.us.tuv.com/seminars)

### Workshops

#### **Functional Safety**

This vocational qualification workshop has been institutionalized by the department of Automation, Software and Informations Technology, ASI, of TÜV Industrie Service GmbH. It supports engineers (and/or persons in the functional safety business) to deepen their knowledge and their experience in order to achieve a worldwide acknowledged know how and practical experience within the area of functional safety according to the IEC 61508 and IEC 61511 international standards.

Engineers who are working in the field of functional safety for many years have the possibility to obtain an official verification of their expertise. By successfully passing a final exam, they will receive a TÜV Rheinland Functional Safety Engineer certificate. This certificate, which is acknowledged worldwide, states that specific knowledge within the field of "Hardware/Software/System Design" has been achieved.

Please call today for dates and information on the next workshop, **1-TUV-RHEINLAND** (1-888-743-4652).

## market access

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