Field Evaluation Services Newsletter



ELECTRICAL WORKPLACE INCIDENTS

FIELD EVALUATION
CE MARKED
EQUIPMENT

TOP SAFETY RECALLS

CUTTING EDGE TECHNOLOGY NEWS

September 2016



TÜVRheinland®

TÜV RHEINLAND'S MONTHLY NEWSLETTER ON FIELD EVALUATION SERVICES

SEPTEMBER 2016

FIELD EVALUATION OF "CE MARKED" EQUIPMENT



Many Inspectors, Hospitals, and equipment buyers are routinely asked to accept the "CE Mark" as evidence of electrical safety certification in North America. There are some important reasons why this equipment should never be accepted as certification:

- CE Marking is a "Self-Declaration" scheme for most products, allowing the manufacturer to claim compliance to international Standards
- There is no follow-up at the factory to ensure the product is still manufactured the same way as described in the documents
- Manufacturers are responsible for product testing, even though they may not have the correct test equipment and procedures.
- If you have a complaint about a "CE Marked" product, there is no authority to contact, no office to call.
- Nationally Recognized Testing Laboratories routinely evaluate and test "CE Marked" products in the laboratory and in the field. Approximately 90% of these products do not meet North American Standards, some in very serious ways.

If you are asked to accept "CE Marking" as certification, try the following sequence to see if the CE paperwork will be helpful in a Field Evaluation:

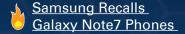
- 1. Obtain the CE Declaration of Conformity. This is usually a one page document signed by an officer of the company.
- 2. Examine the Declaration and identify the Safety standards referenced (These declarations usually reference a number of EMC Standards which are usually not relevant for North America)
- 3. Is the safety Standard appropriate for the product? What date was the declaration created? Is the edition of the Standard correct?
- 4. Based on the Safety Standards referenced, ask for the EN/IEC Test report (For example IEC61010-1). This can be a lengthy document which is a clause by clause evaluation and testing results record indicating Pass, Fail, or N/A.
- 5. Was the test report issued by a recognized testing agency or by the manufacturer? If it is from the manufacturer, request a list of test equipment used for the evaluation.
- 6. If the test report was created by the manufacturer, request the component information that is supposed to exist in the Technical Construction File.
- 7. Examine the product manufacture date and compare it to the date of the test reports. If the product was manufactured years after the test report was created, it may not resemble the original product tested.

Sometimes this information can be very helpful in a Field Evaluation project. Unfortunately many manufacturers claiming the "CE Mark" have not actually done the testing or created the Technical Construction File required by the EU Directives. This means that even in Europe they have not fulfilled the legal requirements, and it also means you may not get any information items past number 3 above. In many cases we have to assume the test report and other documents do not exist.

Some manufacturers do an excellent job with their CE projects, but they are in a minority.

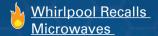
Top Product Safety Recalls







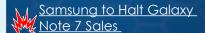




Cree Recalls LED
T8 Lamps; Includes
T8 Lamps Provided
as Replacements in
Previous Recall

United Copper Recalls

Metal Clad Cables



All Power Portable
Generators Recalled by
J.D. North America

Denon Recalls
Rechargeable Battery
Packs









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Short Circuit In Flooded Basement Sends MI Woman To Hospital

Auto Parts
Manufacturer, Staffing
Agency Continue To
Expose Workers
To Fall, Amputation,
Electrocution Hazards
At Georgia Facility

Tennessee
State Fire
Marshal Urges
Public To Join The
Fight Against Fire
In Wake Of

Tragedy

Faulty
Air Conditioner
Power Cord
Sparked House
Fire That Killed Six
Children &
Three Adults

Suspected
Underground
Explosion Leaves
8,700 Without
Power

Video Shows
Explosion Before
Massive Outage
Knocks Out Power
To High School

Environmental Compliance: The New TSCA

Plumber
Electrocuted Due To
Improperly Installed
Range Cord

Florida Hospital Evacuated After Electrical Fire

Faulty Cables Likely Caused Explosions In Downtown Detroit Maximum OSHA Fines For Safety Violations Increase By 78%

Shell Canada Investigates After Electrical Explosion Occurs At Edmonton-area Refinery

University Cited For Safety Violations After Lab Explosion

Electrical Outlet Catches Bedroom Mattress On Fire In Modesto, CA

Report Details

How Electricity Entered Raleigh

Pool, Killing Teen

Girl

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29CFR1910.303A SUBPART S ELECTRICAL

OSHA/US DOL BULLETIN:
CERTIFICATION OF
WORKPLACE PRODUCTS
BY NATIONALLY
RECOGNIZED TESTING
LABS

OSHA:
INDUSTRIAL
MACHINERY
IS ELECTRICAL
EQUIPMENT

FEDERAL LAWS FOR THE WORKPLACE

OSHA: ALL EQUIPMENT MUST BE NRTL APPROVED

NRTL PART 1 NRTL PART 2

> 29CFR1910.399 DEFINITIONS

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Six Futuristic Phone Designs

Kurzweil Says Passion Projects Are The Best Way To

Learn

Sleeping Pods

Could Be Coming To

An Airport Near You

The World's
First Flying Car Will
Launch In 2018 - Here
It Is In Action

What
Everyone Should
Know About The
Internet Of Things

OfThings
Tesla Autopilot
8.0 Uses Radar To
Prevent Accidents
Like The Fatal Model

Ultrafast,
Ultrahigh-density
NRAM, Non-Volatile
RAM
Using Carbon
Nanotubes

S Crash

Domino's Delivers Pizza By Drone In New Zealand

ne In New Zealand Deuteron M

Deuteron Mystery: Much Smaller Than Thought

CFL Bulbs May

Come With Danger

Man-made

"Wind Trees" Will Finally Make It Possible To Power Homes Using Turbines

New Solar
Technology
Promises Big Gains
In Efficiency And
Output

IoT Village
At DEF CON 24
Uncovers Extensive
Security Flaws In
Connected

Rays The Roof:
New Panels Nearly
Double Solar
Production

Vuzix M300

Wearable Smart
Glasses

MIT Researchers
Discover Method
To Triple Wireless
Speeds

New

Sideways Solar

Cells Yield Greater

Efficiency

Visionary Ray Kurzweil On The Amazing Future He Sees — Thanks To Tech

The 10 Top-Selling Plug-In Vehicles In The U.S.

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ROBOTICS

No Sailors **Needed: Robot** Sailboats Scour The Oceans For Data

Harvard **Scientists Develop** Soft Robots That Can Camouflage **Themselves**

Al Robots Can

Now Read Human

Emotions

Release Drugs In The **Body Using Mind-**Control

This New Robot Can Overcome Any Obstacle

> Tiny, Soft Robotic Caterpillar Creeps, **Climbs And Crawls**

Scientists Made Nanorobots That Can

ASTRONOMY AND TECHNOLOGY

The Five Closest **Exoplanets That Could Potentially Support Life**

Explosion Could Across Space Industry **Team Shoots For**

Exploration

The Moon With

Water-Propelled

Satellite

Falcon 9 **Have Ripple Effects**

Scientists Build A Laser Using Human Blood

BIOLOGY AND TECHNOLOGY

Magnetic **Bacteria Target Hard**to-treat Tumors

5

Battery You Can Swallow **Ingestible Medical Devices**

Could Enable Future

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IAEI Eastern	Sept/Oct	30-2	Springfield, MA
IAEI Southern	October	9-12	Birmingham, AL
FHEA	October	17-19	Orlando, FL
International Collaborative Robots	October	20	Cincinnati, OH
IEC	October	26-29	San Antonio, TX

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