



## **NEW ELECTROMAGNETIC FIELDS (EMF) DIRECTIVE – EFFECTIVE 1 JULY 2016**

# SGS SERVICES WHICH ASSIST WITH THE NEW DIRECTIVE'S IMPLEMENTATION AND RISK ASSESSMENTS

On 26 June 2013, the new European Directive (2013/35/EU) on the minimum health and safety requirements regarding the exposure of workers to the risks arising from physical agents (electromagnetic fields (EMF)) was published. This directive replaces the previous directive 2004/40/EC and will become mandatory in Europe by 1 July 2016.

The directive applies to all industries. Employers will need to make an assessment of workers' exposure to EMF and if the exposure is above the exposure limit values, they will need to develop an action plan to reduce exposure. Depending on the level of exposure some processes may require worker information and training, and health surveillance for EMF.

## RISK RELATED WHEN EXPOSED TO ELECTROMAGNETIC FIELDS

Exposure to unsafe levels of electromagnetic fields (EMF) can cause burns, a rise in body temperature, shocks and other adverse conditions. EMF can also affect people indirectly if they wear implantable electronic devices such as pacemakers etc.

In order to prevent people from being exposed to hazardous electromagnetic fields, exposure restrictions have been placed on EMF quantities such as electric field strength, magnetic field strength, magnetic flux density, power density and contact current. These EMF levels can be measured and actual risk of exposure assessed.

SGS United Kingdom Ltd provides laboratory measurements of electromagnetic fields (EMF) from products including household appliances, radio transmitting devices, cellular radio base station, machinery, industrial equipment, hospital diathermy equipment and radar, broadcast, navigation and communications transmitter installations, lighting and welding equipment in order to show compliance with the human exposure requirements of the low voltage directive.

Services Include:

- EMF Measurements of certain electrical products tested to EU standards to gain CE Marking.

- EMF Onsite Measurements
- EMF Safety Training – Protocols designed to meet your specific needs
- Independent and Impartial advice – SGS test and consultancy services are not linked or tied with the manufacturers
- EMF Risk Assessment & Implementation of Directive

For household appliances, lighting equipment and welding equipment the requirements for human exposure to EMF are covered under the Low Voltage Directive (LVD). It applies mandatory test standards for CE Marking.

- EN 62233 – EMF of household appliances
- EN 62493 – EMF of lighting equipment
- EN 50445 – EMF of welding equipment

To assist with the EMF risk assessment process and implementation of the directive, SGS will not only help the majority of employers to quickly recognise they do not have a problem with EMFs but will also provide more detailed guidance for employers who do have higher fields in their workplace.

## WHY SGS?

SGS is the world's leading inspection, verification, testing and certification company. SGS is recognised as the global benchmark for quality and integrity. With more than 85,000 employees, SGS operates a network of over 1,800 offices and laboratories around the world.

Enhancing processes, systems and skills is fundamental to your ongoing success and sustained growth. We enable you to continuously improve, transforming your services and value chain by increasing performance, managing risks, better meeting stakeholder requirements and managing sustainability.

With a global presence, we have a history of successfully executing large-scale, complex international projects. Our people speak the language and understand the culture of the local market and operate in a consistent, reliable and effective manner.

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# SGS

WHEN YOU NEED TO BE SURE