

Directive 2013/35/EU of the European Parliament and of the Council of 26 June 2013 on the minimum health and safety requirements regarding the exposure of workers to the risks arising from physical agents (electromagnetic fields) (20th individual Directive within the meaning of Article 16(1) of Directive 89/391/EEC) and repealing Directive 2004/40/EC

## CHAPTER I

### GENERAL PROVISIONS

- Article 1 Subject-matter and scope
- Article 2 Definitions
- Article 3 Exposure limit values and action levels

## CHAPTER II

### OBLIGATIONS OF EMPLOYERS

- Article 4 Assessment of risks and determination of exposure
- Article 5 Provisions aimed at avoiding or reducing risks
- Article 6 Worker information and training
- Article 7 Consultation and participation of workers

## CHAPTER III

### MISCELLANEOUS PROVISIONS

- Article 8 Health surveillance
- Article 9 Penalties
- Article 10 Derogations
- Article 11 Technical amendments of the Annexes
- Article 12 Exercise of the delegation
- Article 13 Urgency procedure

## CHAPTER IV

### FINAL PROVISIONS

- Article 14 Practical guides
- Article 15 Review and reporting
- Article 16 Transposition
- Article 17 Repeal
- Article 18 Entry into force
- Article 19 Addressees  
Signature

## ANNEX I

### PHYSICAL QUANTITIES REGARDING THE EXPOSURE TO ELECTROMAGNETIC FIELDS

The following physical quantities are used to describe the exposure...

Electric field strength (E) is a vector quantity that corresponds...

Of these quantities, magnetic flux density (B), contact current (IC),...

## ANNEX II

### NON-THERMAL EXPOSURE LIMITS VALUES AND ACTION LEVELS IN THE FREQUENCY RANGE...

- A. EXPOSURE LIMIT VALUES (ELVs)  
 Note A2f Is the frequency expressed in hertz (Hz).  
 Note A2E The health effects ELVs for internal electric field are spatial...  
 Note A2T The ELVs are peak values in time which are equal...  
 Note A3f Is the frequency expressed in hertz (Hz).  
 Note A3E The sensory effects ELVs for internal electric field are spatial...  
 Note A3T The ELVs are peak values in time which are equal...
- B. ACTION LEVELS (ALs)  
 Note B1f Is the frequency expressed in hertz (Hz).  
 Note B1E The low ALs (E) and high ALs (E) are the...  
 Note B1A ALs represent maximum calculated or measured values at the workers'...  
 Note B2f Is the frequency expressed in hertz (Hz).  
 Note B2E The low ALs and the high ALs are the Root-Mean-Square...  
 Note B2A ALs for exposure to magnetic fields represent maximum values at...  
 Note B3f Is the frequency expressed in kilohertz (kHz).

## ANNEX III

### THERMAL EXPOSURE LIMIT VALUES AND ACTION LEVELS IN THE FREQUENCY RANGE...

- A. EXPOSURE LIMIT VALUES (ELVs)  
 Note A1E Localised SAR averaging mass is any 10 g of contiguous tissue;...  
 Note A2E Localised SA averaging mass is 10 g of tissue.  
 Note A3 The power density shall be averaged over any 20 cm<sup>2</sup> of...
- B. ACTION LEVELS (ALs)  
 Note B1f Is the frequency expressed in hertz (Hz).  
 Note B1E [ALs(E)]<sup>2</sup> and [ALs(B)]<sup>2</sup> are to be averaged over a six-minute...  
 Note B1A ALs(E) and ALs(B) represent maximum calculated or measured values at...  
 Note B1E The power density shall be averaged over any 20 cm<sup>2</sup> of...  
 Note B2E [ALs(IL)]<sup>2</sup> is to be averaged over a six-minute period.

## ANNEX IV

---

**Status:** EU Directives are being published on this site to aid cross referencing from UK legislation. After IP completion day (31 December 2020 11pm) no further amendments will be applied to this version.

---

- (1) [OJ C 43, 15.2.2012, p. 47.](#)
- (2) Position of the European Parliament of 11 June 2013 (not yet published in the Official Journal) and decision of the Council of 20 June 2013.
- (3) [OJ L 159, 30.4.2004, p. 1.](#)
- (4) [OJ L 114, 26.4.2008, p. 88.](#)
- (5) [OJ L 110, 24.4.2012, p. 1.](#)
- (6) [OJ L 183, 29.6.1989, p. 1.](#)
- (7) [OJ C 218, 13.9.2003, p. 1.](#)
- (8) [OJ C 369, 17.12.2011, p. 14.](#)