STATUTORY RULES OF NORTHERN IRELAND

2010 No. 180

The Control of Artificial Optical Radiation at Work Regulations (Northern Ireland) 2010

Citation, commencement and interpretation

- 1.—(1) These Regulations may be cited as the Control of Artificial Optical Radiation at Work Regulations (Northern Ireland) 2010 and shall come into operation on 14th June 2010.
 - (2) In these Regulations—
 - "the 2000 Regulations" means the Management of Health and Safety at Work Regulations (Northern Ireland) 2000(1);
 - "artificial optical radiation" means any electromagnetic radiation in the wavelength range between 100nm and 1mm which is emitted by non-natural sources;
 - "the Directive" means Directive 2006/25/EC of the European Parliament and of the Council on the minimum health and safety requirements regarding the exposure of workers to risks arising from physical agents (artificial optical radiation) (19th individual Directive within the meaning of Article 16(1) of Directive 89/391/EEC), and references in these Regulations to the Annexes to the Directive are to those Annexes as amended from time to time;
 - "enforcing authority" means the Health and Safety Executive for Northern Ireland or district council, determined in accordance with the provisions of the Health and Safety (Enforcing Authority) Regulations (Northern Ireland) 1999(2);
 - "the exposure limit values" means—
 - (a) for non-coherent radiation, those exposure limit values set out in Annex 1 of the Directive; and
 - (b) for laser radiation those exposure limit values set out in Annex II of the Directive;
 - "health surveillance" means assessment of the state of health of an employee, as related to exposure to artificial optical radiation and its effects on the skin;
 - "irradiance" means the radiant power incident per unit area upon a surface expressed in watts per square metre (W m⁻²);
 - "laser" (light amplification by stimulated emission of radiation) means any device which can be made to produce or amplify electromagnetic radiation in the optical radiation wavelength range primarily by the process of controlled stimulated emission;
 - "laser radiation" means artificial optical radiation from a laser;
 - "non-coherent radiation" means any artificial optical radiation other than laser radiation;
 - "radiance" means the radiant flux or power output per unit solid angle per unit area expressed in watts per square metre per steradian (W m⁻² sr⁻¹);

⁽¹⁾ S.R. 2000 No. 388 amended by S.R. 2001 No. 348, S.R. 2003 No. 454, S.R 2006 No. 255 and revoked in part by S.R. 2007 No. 291

⁽²⁾ S.R. 1999 No. 90 amended by S.R. 2000 No. 375, S.R. 2003 No. 33, S.R. 2006 No. 205, S.R. 2006 No. 425, S.R. 2007 No. 31, S.R. 2007 No. 291 and S.R. 2009 No. 238

Status: Point in time view as at 31/12/2020.

Changes to legislation: There are currently no known outstanding effects for the The Control of Artificial Optical Radiation at Work Regulations (Northern Ireland) 2010. (See end of Document for details)

"radiant exposure" means the time integral of the irradiance, expressed in joules per square metre (J m⁻²); and

"territorial sea" means the territorial sea of the United Kingdom adjacent to Northern Ireland and "within the territorial sea" includes on, over and under it.

- (3) Where a word or expression is defined in the Directive and is not defined in these Regulations, it has the meaning as in the Directive.
- (4) A reference to an employee being exposed to artificial optical radiation is a reference to that exposure which arises while the employee is at work, or arises out of, or in connection with, the employee's work.
- (5) The Interpretation Act (Northern Ireland) 1954(3) shall apply to these Regulations as it applies to an Act of the Northern Ireland Assembly.

Commencement Information

II Reg. 1 in operation at 14.6.2010, see reg. 1(1)

Application

- **2.**—(1) Where a duty is placed by these Regulations on an employer in respect of its employees, the employer shall, so far as is reasonably practicable, be under a like duty in respect of any other person at work who may be affected by the work carried out by the employer except that the duties of the employer—
 - (a) under regulation 5 (information and training) do not extend to persons who are not its employees, unless those persons are present in the workplace where the work is being carried out; and
 - (b) under regulation 6 (health surveillance and medical examinations) do not extend to persons who are not its employees.
- (2) These Regulations do not apply to the master of a crew of a ship or the employer of such persons in respect of the normal shipboard activities of a ship's crew which are carried out solely by the crew under the direction of the master, and for the purposes of this paragraph "ship" includes every description of vessel used in navigation, other than a ship forming part of Her Majesty's Navy.

Commencement Information

I2 Reg. 2 in operation at 14.6.2010, see reg. 1(1)

Assessment of the risk of adverse health effects to the eyes or skin created by exposure to artificial optical radiation at the workplace

- 3.—(1) Where—
 - (a) the employer carries out work which could expose any of its employees to levels of artificial optical radiation that could create a reasonably foreseeable risk of adverse health effects to the eyes or skin of the employee; and
 - (b) that employer has not implemented any measures to either eliminate or, where this is not reasonably practicable, reduce to as low a level as is reasonably practicable, that risk based on the general principles of prevention set out in Schedule 1 to the 2000 Regulations,

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the employer shall make a suitable and sufficient assessment of that risk for the purpose of identifying the measures it needs to take to meet the requirements of these Regulations.

- (2) The employer shall as part of that risk assessment assess, and if necessary, measure or calculate, the levels of artificial optical radiation to which employees are likely to be exposed.
- (3) In carrying out the assessment, measurement or calculation, the employer shall follow the following standards or recommendations—
 - (a) for laser radiation, the standards of the IEC; or
 - (b) for non-coherent radiation, the standards of the IEC and the recommendations of the CIE and the CEN.
- (4) In exposure situations which are not covered by those standards or recommendations, the assessment, measurement or calculations shall follow national or international science-based guidelines.
 - (5) The assessment shall also include consideration of—
 - (a) the level, wavelength and duration of exposure;
 - (b) the exposure limit values;
 - (c) the effects of exposure on employees or groups of employees whose health is at particular risk from exposure;
 - (d) any possible effects on the health and safety of employees resulting from interactions between artificial optical radiation and photosensitising chemical substances;
 - (e) any indirect effects on exposure on the health and safety of employees such as temporary blinding, explosion or fire;
 - (f) the availability of alternative equipment designed to reduce levels of exposure;
 - (g) appropriate information obtained from health surveillance, including where possible published information;
 - (h) multiple sources of exposure;
 - (i) any class 3B or 4 laser that is classified in accordance with the relevant IEC standard that is in use by the employer and any artificial optical radiation source that is capable of presenting the same level of hazard; and
 - (j) information provided by the manufacturers of artificial optical radiation sources and associated work equipment in accordance with the relevant European Union Directives $[^{F1}$ (as they had effect immediately before IP completion day)].
 - (6) The risk assessment shall be reviewed regularly if—
 - (a) there is reason to suspect that it is no longer valid; or
 - (b) there has been a significant change in the work to which the assessment relates.
 - (7) The employer shall record—
 - (a) the significant findings of the risk assessment as soon as is practicable after it is made or changed; and
 - (b) the measures which have been taken and which the employer intends to take to meet the requirements of regulation 4 and 5.
 - (8) In paragraphs (3) and (4)—
 - (a) a reference to standards or recommendations is a reference to standards or recommendations as revised or re-issued from time to time;
 - (b) "CEN" means the European Committee for Standardisation;
 - (c) "CIE" means the International Commission for Illumination; and

- (d) "IEC" means the International Electrotechnical Commission.
- (9) In paragraph (5)(a) "level" means the combination of irradiance, radiant exposure and radiance to which an employee is exposed.

Textual Amendments

Words in reg. 3(5)(j) inserted (31.12.2020) by The Health and Safety (Amendments and Revocation) (EU Exit) Regulations (Northern Ireland) 2020 (S.R. 2020/330), regs. 1(2), 8(2)

Commencement Information

I3 Reg. 3 in operation at 14.6.2010, see **reg. 1(1)**

Obligations to eliminate or reduce risks

- **4.**—(1) An employer shall ensure that any risk of adverse health effects to the eyes or skin of employees as a result of exposure to artificial optical radiation which is identified in the risk assessment is eliminated or, where this is not reasonably practicable, reduced to as low a level as is reasonably practicable.
- (2) For the purposes of paragraph (1) measures to eliminate or reduce the risk shall be based on the general principles of prevention set out in Schedule 1 to the 2000 Regulations.
- (3) If the risk assessment indicates that employees are exposed to levels of artificial optical radiation which exceed the exposure limit values, the employer shall devise and implement an action plan comprising technical and organisational measures designed to prevent exposure exceeding the exposure limit values.
 - (4) The action plan shall take into account—
 - (a) other working methods;
 - (b) choice of appropriate work equipment emitting less artificial optical radiation;
 - (c) technical measures to reduce the emission of artificial optical radiation including, where necessary, the use of interlocks, shielding or similar health protection mechanisms;
 - (d) appropriate maintenance programmes for work equipment, workplaces and workstation systems;
 - (e) the design and layout of workplaces and workstations;
 - (f) limitation of the duration and level of the exposure;
 - (g) the availability of personal protective equipment;
 - (h) the instructions of the manufacturer of the equipment where it is covered by relevant European Union Directives [F2(as they had effect immediately before IP completion day)]: and
 - (i) the requirements of employees belonging to particularly sensitive risk groups.
- (5) If, despite the measures taken under paragraphs (1) and (3), employees are still exposed to levels of artificial optical radiation that exceed the exposure limit values, the employer shall take immediate action to—
 - (a) reduce exposure to below the exposure limit values;
 - (b) identify the reasons why employees have been exposed to levels which exceed the exposure limit values; and
 - (c) modify the measures taken in accordance with paragraph (3) to prevent employees being exposed again to levels which exceed the exposure limit values.

Status: Point in time view as at 31/12/2020.

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- (6) Paragraph (7) applies if the risk assessment indicates that in any of the areas of the workplace under the control of the employer, employees could be exposed to levels of artificial optical radiation which exceed the exposure limit values.
 - (7) The employer shall ensure that the areas in question are—
 - (a) demarcated and access by the employees to those areas is restricted so far as is reasonably practicable; and
 - (b) identified by means of the appropriate signs as specified in the Health and Safety (Safety Signs and Signals) Regulations (Northern Ireland) 1996(4).

Textual Amendments

Words in reg. 4(4)(h) inserted (31.12.2020) by The Health and Safety (Amendments and Revocation) (EU Exit) Regulations (Northern Ireland) 2020 (S.R. 2020/330), regs. 1(2), 8(3)

Commencement Information

I4 Reg. 4 in operation at 14.6.2010, see **reg. 1(1)**

Information and training

- **5.**—(1) If the risk assessment indicates that employees could be exposed to artificial optical radiation which could cause adverse health effects to the eyes or skin of employees, the employer shall provide its employees and representatives with suitable and sufficient information and training relating to the outcome of the risk assessment, and this shall include the following—
 - (a) the technical and organisational measures taken in order to comply with the requirements of regulation 4;
 - (b) the exposure limit values;
 - (c) the significant findings of the risk assessment, including any measurements taken, with an explanation of those findings;
 - (d) why and how to detect and report adverse health effects to the eyes or skin;
 - (e) the circumstances in which employees are entitled to appropriate health surveillance;
 - (f) safe working practices to minimise the risk of adverse health effects to the eyes or skin from exposure to artificial optical radiation; and
 - (g) the proper use of personal protective equipment.
- (2) The employer shall ensure that any person, whether or not that person is an employee, who carries out work in connection with the employer's duties under these Regulations has suitable and sufficient information and training.

Commencement Information

I5 Reg. 5 in operation at 14.6.2010, see reg. 1(1)

⁽⁴⁾ S.R. 1996 No. 119 amended by S.R. 1997 No. 247, S.R. 1999 No. 150, S.R. 2000 No. 388, S.R. 2006 No. 173 and revoked in part by S.R. 2006 No. 1

Health surveillance and medical examinations

- **6.**—(1) If the risk assessment indicates that there is a risk of adverse health effects to the skin of employees as a result of exposure to artificial optical radiation, the employer shall ensure that such employees are placed under suitable health surveillance.
- (2) Health surveillance pursuant to paragraph (1) shall be carried out by a doctor or occupational health professional and the risk assessment shall be made available to that doctor or occupational health professional.
- (3) The employer shall ensure that a health record of each of its employees who undergoes health surveillance pursuant to paragraph (1) is made and maintained and that the record or copy of it is kept available in a suitable form.
 - (4) The health record shall contain a summary of the results of the health surveillance carried out.
 - (5) The employer shall—
 - (a) on reasonable notice being given, allow an employee access to his or her personal health record; and
 - (b) provide the enforcing authority with copies of such health records as it may require.
 - (6) An employer shall ensure that a medical examination is made available to an employee if—
 - (a) the risk assessment indicates that the employee has been exposed to levels of artificial optical radiation which exceed the exposure limit values; or
 - (b) as a result of health surveillance the employee is found to have an identifiable disease or adverse health effects to the skin which is considered by a doctor or occupational health professional to be the result of exposure to artificial optical radiation.
 - (7) Where an examination is carried out under paragraph (6), the employer shall—
 - (a) ensure that a doctor or suitably qualified person—
 - (i) informs the employee of the result of the examination which relates to the employee;
 - (ii) provides advice on whether health surveillance may be appropriate;
 - (b) ensure that it is informed of any significant findings from any further health surveillance of the employee taking into account any medical confidentiality;
 - (c) review the risk assessment;
 - (d) review any measures taken to comply with regulation 4, taking into account any advice given by a doctor or other suitably qualified person or the enforcing authority; and
 - (e) provide continued health surveillance if appropriate.

Commencement Information 16 Reg. 6 in operation at 14.6.2010, see reg. 1(1)

Application within the territorial sea

7. Within the territorial sea these Regulations shall apply only to and in relation to any activity to which any of paragraphs 2 to 8 of the Schedule applies.

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Commencement Information
17 Reg. 7 in operation at 14.6.2010, see reg. 1(1)
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Sealed with the Official Seal of the Department of Enterprise, Trade and Investment on 14th May 2010



M Bohill
A senior officer of the Department of Enterprise,
Trade and Investment

Status:

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