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Ergonomic design of control centres — Part 6: Environmental requirements for control centres

Conception ergonomique des centres de commande —

*Partie 6: Exigences relatives à l'environnement pour les centres de
commande*



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Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 General principles for environmental design	5
5 Requirements and recommendations	7
5.1 Ergonomic aspects and thermal conditions	7
5.2 Ergonomics and air quality	8
5.3 Ergonomics and lighting	9
5.4 Ergonomics and acoustics	12
5.5 Ergonomics and vibration	14
5.6 Ergonomics and interior design and aesthetics	15
Annex A (informative) Recommendations for environmental design	17
Bibliography	20

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 11064-6 was prepared by Technical Committee ISO/TC 159, *Ergonomics*, Subcommittee SC 4, *Ergonomics of human-system interaction*.

ISO 11064 consists of the following parts, under the general title *Ergonomic design of control centres*:

- *Part 1: Principles for the design of control centres*
- *Part 2: Principles for the arrangement of control suites*
- *Part 3: Control room layout*
- *Part 4: Layout and dimensions of workstations*
- *Part 6: Environmental requirements for control centres*
- *Part 7: Principles for the evaluation of control centres*

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Introduction

The environmental aspects associated with the design of man–machine systems need to be addressed, since poor environments can seriously affect operator performance. In control rooms, these environmental factors include lighting, humidity, temperature, vibration and noise. These factors also need to take account of shift work, real-time operations under time pressure and the specialised equipment used in control rooms.

In this part of ISO 11064, environmental requirements are presented which optimize work conditions in such a way that safety is ensured, health is not impaired and the efficiency of control room operators is promoted.

The degree of specificity of this standard does not extend to national and local requirements, which can vary between countries and/or regions. In such cases, experts in the relevant areas (human factors and ergonomics, lighting, acoustics, thermal environment, etc.) will need to be consulted. For specific values on environmental variables, see Annex A and/or consult local and/or national standards for the relevant country or region.