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Safety requirements of electrical installations for medically used rooms in hospitals and clinics

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Contents

		Page
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Installation of medical earthing system, non-earthed wiring system and emergency power supply	3
4.1	Medical earthing system	3
4.2	Non-earthed wiring system	8
4.3	Emergency power supply	10
5	Power supply circuit in medical room	14
6	Inspection and maintenance	15
Annex A (informative) Calculation of earth resistance of building structures		17

Foreword

This Japanese Industrial Standard has been revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by The Institute of Electrical Installation Engineers of Japan (IEIEJ)/Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14. Consequently **JIS T 1022:2007** is replaced with this Standard.

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Safety requirements of electrical installations for medically used rooms in hospitals and clinics

1 Scope

This Japanese Industrial Standard specifies the safety requirements and installation method of the medical earthing system, non-earthed wiring system and emergency power supply among the electrical installations provided in hospitals, clinics, etc. for the purpose of ensuring safety in use of medical electrical equipment.

This Standard also specifies installation, inspection and maintenance of power supply circuit for medical rooms.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

- JIS C 2808 *Hospital grade earth centerbodies and terminals*
- JIS C 3307 *600 V Polyvinyl chloride insulated wires*
- JIS C 3612 *600V Flame retardant polyethylene insulated wires*
- JIS C 4411-1 *Uninterruptible power systems (UPS) — Part 1 : General and safety requirements for UPS*
- JIS C 4411-2 *Uninterruptible power systems (UPS) — Part 2 : Electromagnetic compatibility (EMC) requirements*
- JIS C 4411-3 *Uninterruptible power systems (UPS) — Part 3 : Method of specifying the performance and test requirements*
- JIS C 8201-2-2 *Low-voltage switchgear and controlgear — Part 2-2 : Circuit-breakers incorporating residual current protection*
- JIS T 0601-1 *Medical electrical equipment — Part 1 : General requirements for basic safety and essential performance*
- JIS T 1021 *“Hospital grade” outlet-sockets and plugs*

3 Terms and definitions

For the purpose of this Standard, the following terms and definitions apply.

3.1 medical room

room to provide medical care such as medical consultation, examination, medical treatment, observation, etc.

3.2 medical electrical equipment