NEGARA BRUNEI DARUSALAM

BRUNEI DARUSSALAM STANDARD
PIAWAI BRUNEI DARUSSALAM

PBD IEC 60364-7-702: 2010
IEC 60364-7-702
Edition 2.0 1997-11

ELECTRICAL INSTALLATIONS OF BUILDINGS - PART 7: REQUIREMENTS FOR SPECIAL INSTALLATIONS OR LOCATIONS - SECTION 702: SWIMMING POOLS AND OTHER BASINS

ENERGY DIVISION, PRIME MINISTER'S OFFICE
IN COLLABORATION WITH MINISTRY OF DEVELOPMENT
NEGARA BRUNEI DARUSSALAM

FOREWORD

This Brunei Darussalam Electrical Standard was prepared by the Technical Committee on Electrical Standards (TECO), Energy Division at Prime Minister's Office in collaboration with the Authority for Building and Construction Industry (ABCi), Ministry of Development, Brunei Darussalam with the objective of developing the National Electrical Standards for electrical products, systems, equipments and facilities for the local industry and consumers with reference to international standards, guidelines and procedures. In developing the national electrical standards, the aim is to promote quality, technical integrity, health, safety and environmental standards for the local industries and consumers.

This Brunei Darussalam Electrical Standard is an adoption of the International Electro Technical Commission IEC 60364-7-702: 1997 (Edition 2.0) standard and implements it as the Brunei Darussalam National Standard.

Attention is drawn to the fact that this Brunei Darussalam Electrical Standard does not confer any immunity from legal obligations in any contract for compliance to the Standard.

The National Electrical Standards are subject to periodical review according to the current needs of the local industries and consumers to keep abreast of progress in the industries and consumers concerned. Suggestions of amendments will be recorded and in due course brought to the notice of the committees concerned.

COMMITTEE MEMBERS

The Technical Committee on Electrical Standards (TECO) was tasked by the Energy Division at the Prime Minister's Office in collaboration with the Authority for Building and Construction Industry (ABCi), Ministry of Development, Brunei Darussalam for the preparation of this Brunei Darussalam Electrical Standard. The members of the Technical Committee are as follows:

1. Awg Haji Abd Shawal Yaman (Chairman)	Department of Electrical Services, PMO
2. Awg Liaw Wai Khiong (Co-Chairman)	Brunei Shell Petroleum Co. Sdn Bhd / Institution of Engineering and Technology, Brunei Darussalam
3. Pg Shaharuddin Pg Haji Yusoff (Secretary)	ABCi, Ministry of Development
4. Awg William Voon (Assistant Secretary 1)	Berakas Power Management Company,
5. Awg Simon K A Leong (Assistant Secretary 2)	KR Kamarulzaman & Associates
6. Awg Haji Md Azrul Azrin Hj Md Zain	Department of Electrical Services, PMO
7. Awg Md Amir Sharifuddin Haji Ali	Department of Electrical Services, PMO
8. Awg Khairul Ezam Hj Mohd Zain	ABCi, Ministry of Development
9. Awg Dennis Wong Tet Yin	Department of Mechanical & Electrical Services, PWD
10. Awg Nohi Irwan Surkarki Haji Pawi	Department of Fire & Rescue Services
11. Awg Haji Morsidi Haji Kassim	Institut Teknologi Brunei
12. Awg Haji Ismit Haji Mohamad	Institut Teknologi Brunei
13. Awg Matyassin Haji Masri	Maktab Kejuruteraan Jefri Bolkiah
14. Awg Sylvester Kong	Brunei Shell Petroleum Co. Sdn Bhd
15. Dyg Seri Malati OKIP Hj Zolkeflee	Brunei Shell Petroleum Co. Sdn Bhd
16. Awang Aristoteles Momin	Brunei LNG Sdn Bhd
17. Awg Rick Liaw	Hamzah Hassan Consultant

SUB-COMMITTEE NO. 5 MEMBERS

The Sub-Committee No. 5 (SC5) is the working groups for the Electrical Wiring Code of Practice who assisted in the preparation for the adoption of the Brunei Darussalam Electrical Standard. The members of the Sub-Committee No. 5 are :

1. Awg William Voon (Chairman)	Berakas Power Management Company,
2. Awg Liaw Wai Khiong (Secretary)	Brunei Shell Petroleum Co. Sdn Bhd Institution of Engineering and Technology, Brunei Darussalam
3. Pg Shaharuddin Pg Haji Yusoff	ABCi, Ministry of Development
4. Awg Khairul Ezam Hj Mohd Zain	ABCi, Ministry of Development
5. Awg Simon K A Leong	KR Kamarulzaman & Associates
6. Awg Dennis Wong Tet Yin	Department of Mechanical & Electrical Services, PWD
7. Dr Rohaniyati Salleh	Department of Mechanical & Electrical Services, PWD
8. Dyg Hajah Norhayati binti Ahmad	Department of Electrical Services, PMO
9. Awg Abdul Azia bin Abdullah	Department of Electrical Services, PMO
10. Awg Matyassin Haji Masri	Institut Teknologi Brunei
11. Awg Haji Morsidi Haji Kassim	Maktab Kejuruteraan Jefri Bolkiah
12. Awg Tony Ng	PKS Sdn Bhd
13. Awg N. Sivakumar	LKH (B) Sdn Bhd
14. Awg Tan Tau Minn	SEC Mashibah Sdn Bhd

PIAWAI BRUNEI DARUSSALAM – BRUNEI DARUSSALAM STANDARD

INTERNATIONAL STANDARD

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Second edition
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Electrical installations of buildings –

Part 7: Requirements for special installations or locations – Section 702: Swimming pools and other basins

Reference number
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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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FOREWORD

1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
2) The formal decisions or agreements of the IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested National Committees.
3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical reports or guides and they are accepted by the National Committees in that sense.
4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.
5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.
6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 60364-7-702 has been prepared by IEC technical committee 64: Electrical installations of buildings.

This second edition cancels and replaces the first edition published in 1983 and constitutes a technical revision.

The text of this standard is based on the following documents:

FDIS	Report on voting
64/906/FDIS	64/969/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

Annex A is for information only.

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INTRODUCTION

The requirements of Part 7 supplement, modify or replace the general requirements of the other parts of IEC 60364. The numbers following the particular number of section 702 are those of the corresponding parts, chapters, sections or clauses of IEC 60364. The absence of reference to a chapter, section or a clause means that the corresponding general requirements are applicable.

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ELECTRICAL INSTALLATIONS OF BUILDINGS –

Part 7: Requirements for special installations or locations – Section 702: Swimming pools and other basins

702 Swimming pools and other basins

702.1 Scope, object and fundamental principles

702.11 Scope

The particular requirements of this Section apply to the basins of swimming pools, the basins of fountains and the basins of paddling pools. They also apply to the surrounding zones of all these basins. In these areas, in normal use, the effect of an electric shock is increased by a reduction in body resistance and contact of the body with earth potential.

The requirements for swimming pools are applicable for paddling pools.

For swimming pools for medical use, special requirements may be necessary.

702.12 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this section of IEC 60364-7. At the time of the publication, the editions indicated were valid. All normative documents are subject to revision, and parties to agreement based on this section of IEC 60364-7 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

IEC 60245-1: 1994, *Rubber insulated cables – Rated voltages up to and including 450/750 V – Part 1: General requirements*

IEC 60245-4: 1994, *Rubber insulated cables – Rated voltages up to and including 450/750 V – Part 4: Cords and flexible cables*

IEC 60364-2-21: 1993, *Electrical installations of buildings – Part 2: Definitions – Chapter 21: Guide to general terms*

IEC 60364-4-41: 1992, *Electrical installations of buildings – Part 4: Protection for safety – Chapter 41: Protection against electric shock*

IEC 60364-7-701: 1984, *Electrical installations of buildings – Part 7: Requirements for special installations or locations – Section 701: Locations containing a bath tub or shower basin*

IEC 60529: 1989, *Degrees of protection provided by enclosures (IP code)*

IEC 60536: 1976, *Classification of electrical and electronic equipment with regard to protection against electric shock*

IEC 60598-2-18: 1993, *Luminaires – Part 2: Particular requirements – Section 18: Luminaires for swimming pools and similar applications*

IEC 61140:1997, *Protection against electric shock – Common aspects for installation and equipment* (2nd edition)