Electrical installations for lighting and beaconing of aerodromes - Maintenance of aeronautical ground lighting constant current series

EESTI STANDARDIKESKUS
ESTONIAN CENTRE FOR STANDARDISATION

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 61821:2011 sisaldab Euroopa standardi EN 61821:2011 ingliskeelset teksti.	This Estonian standard EVS-EN 61821:2011 consists of the English text of the European standard EN 61821:2011.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 25.11.2011.	Date of Availability of the European standard is 25.11.2011.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile standardiosakond@evs.ee.

ICS 29.140.50, 93.120

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 61821

November 2011

ICS 29.140.50; 93.120

Supersedes EN 61821:2003

English version

Electrical installations for lighting and beaconing of aerodromes - Maintenance of aeronautical ground lighting constant current series circuits

(IEC 61821:2011)

Installations électriques pour l'éclairage et le balisage des aérodromes - Maintenance des circuits série à courant constant pour le balisage aéronautique au sol
(CEI 61821:2011)

Elektrische Anlagen für Beleuchtung und Befeuerung von Flugplätzen - Wartung von Konstantstrom-Serienstromkreisen für Flugplatzbefeuerungsanlagen
(IEC 61821:2011)

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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Foreword

The text of document 97/153/FDIS, future edition 2 of IEC 61821, prepared by IEC/TC 97 "Electrical installations for lighting and beaconing of aerodromes" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61821:2011.

The following dates are fixed:

• latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2012-08-03
• latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2014-11-03

This document supersedes EN 61821:2003.

EN 61821:2011 includes the following significant technical changes with respect to EN 61821:2003:

a) addition of references to normative references;

b) addition of notes in Clauses 5, 6 and 7;

c) modification of pre-work procedures in item e) of 7.2.2.

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

Endorsement notice

The text of the International Standard IEC 61821:2011 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 61822	NOTE Harmonized as EN 61822.
IEC 61823	NOTE Harmonized as EN 61823.

Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

Publication	Year	Title	EN/HD	Year
IEC 60903	-	Live working - Gloves of insulating material	EN 60903	-

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INTRODUCTION

This International Standard contains the management, safety and procedural requirements specific to the maintenance of an aeronautical ground lighting (AGL) constant current series circuit and has taken into consideration existing national standards, requirements and practices. The maintenance activities are required to ensure that the AGL constant current series circuit continues to meet the operational requirements and minimize the occurrence of operational failures.

To conform to this International Standard it should be demonstrated to the relevant bodies that the requirements have been satisfied and therefore that the clause objective(s) has (have) been met.

NOTE Examples of relevant bodies would include the following:

- certification and licensing authorities;
- safety regulators;
- notified bodies for international or European directives;
- national standards bodies.

ELECTRICAL INSTALLATIONS FOR LIGHTING AND BEACONING OF AERODROMES – MAINTENANCE OF AERONAUTICAL GROUND LIGHTING CONSTANT CURRENT SERIES CIRCUITS

1 Scope

This International Standard applies to the maintenance of AGL constant current series circuits.

This International Standard

- covers constant current series circuits for AGL installed at aerodromes and heliports;
- concentrates on providing the safety requirements for the maintenance of an AGL constant current series circuit. It is recognized that AGL constant current series circuits of different design characteristics and parameters are in existence;
- is mainly concerned with safety to persons by specifying the rules and fundamental principles for the maintenance of AGL constant current series circuits;
- is not intended to apply to AGL primary series circuits supplied directly from a mains constant voltage source;
- is not intended to be used for public street lighting, roadway lighting or any other installation requiring the use of constant current series circuits.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60903, *Live working – Gloves of insulating material*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1
aerodrome authority
organization accountable for the operational safety and security of persons, aircraft operations and facilities at an aerodrome

NOTE Temporally the occupational safety for third party personal, contracted for AGL work on non-operational areas, can be delegated to the third party contractor if the evidence of professional skills, knowledge of the behavior rules and the separation to the airport operation area is given and documented.

3.2
AGL constant current series circuit
apparatus configured as an electrical circuit designed to produce and operate with a constant current, independent of specified load variations, in order to provide a specified light for aeronautical purposes

3.3
AGL operator
person responsible for the control of the AGL to permit the safe movement of aircraft