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Standards

Irish Standard
I.S. EN 62337:2012

Commissioning of electrical, instrumentation and control systems in the process industry - Specific phases and milestones (IEC 62337:2012 (EQV))

I.S. EN 62337:2012

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April 2012

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Supersedes EN 62337:2007

English version

**Commissioning of electrical, instrumentation and control systems in the
process industry -
Specific phases and milestones
(IEC 62337:2012)**

Mise en service des systèmes électriques,
de mesure et de commande dans
l'industrie de transformation -
Phases et jalons spécifiques
(CEI 62337:2012)

Inbetriebnahme elektrischer und
leittechnischer Systeme in der
verfahrenstechnischen Industrie -
Phasen und Meilensteine
(IEC 62337:2012)

This European Standard was approved by CENELEC on 2012-03-28. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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CENELEC

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

Management Centre: Avenue Marnix 17, B - 1000 Brussels

Foreword

The text of document 65E/221/FDIS, future edition 2 of IEC 62337, prepared by SC 65E, "Devices and integration in enterprise systems", of IEC TC 65, "Industrial-process measurement, control and automation" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62337:2012.

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) 2012-12-28
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2015-03-28

This document supersedes EN 62337:2007.

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 62337:2012 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 61331 series | NOTE | Harmonized in EN 61331 series. |
| IEC 61355-1 | NOTE | Harmonized as EN 61355-1. |

Annex ZA
(normative)
**Normative references to international publications
with their corresponding European publications**

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 62079	-	Preparation of instructions - Structuring, content and presentation	EN 62079	-
IEC 62424	-	Representation of process control engineering - Requests in P&I diagrams and data exchange between P&ID tools and PCE-CAE tools	EN 62424	-
ISO 10628-2 ¹⁾	-	Diagrams for the chemical and petrochemical industry - Part 2: Graphical symbols	EN ISO 10628-2 ¹⁾	-
ANSI/ISA S7.0.01	-	Quality Standard for Instrument Air	-	-

¹⁾ At draft stage.

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**COMMISSIONING OF ELECTRICAL, INSTRUMENTATION
AND CONTROL SYSTEMS IN THE PROCESS INDUSTRY –
SPECIFIC PHASES AND MILESTONES**

FOREWORD

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International Standard IEC 62337 has been prepared by subcommittee 65E: Devices and integration in enterprise systems of IEC technical committee 65: Industrial-process measurement, control and automation.

This second edition cancels and replaces the first edition published in 2006. This edition constitutes a technical revision.

The main changes with respect to the previous edition are listed below:

- The definition of the documents mentioned in this standard is in accordance with future IEC 62708¹.

¹ To be published.

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

FDIS	Report on voting
65E/221/FDIS	65E/226/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.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

INTRODUCTION

There is an increasing trend in the process industry to award the construction of whole plants to contractors on a lump-sum turnkey or similar commercial basis. Experience has shown that both the process industry (hereinafter called “the owner”) and the contractor have long and expensive discussions to lay down unambiguously the scope of activities to be taken by the contractor and the owner and their responsibilities to achieve the handover of the plant.

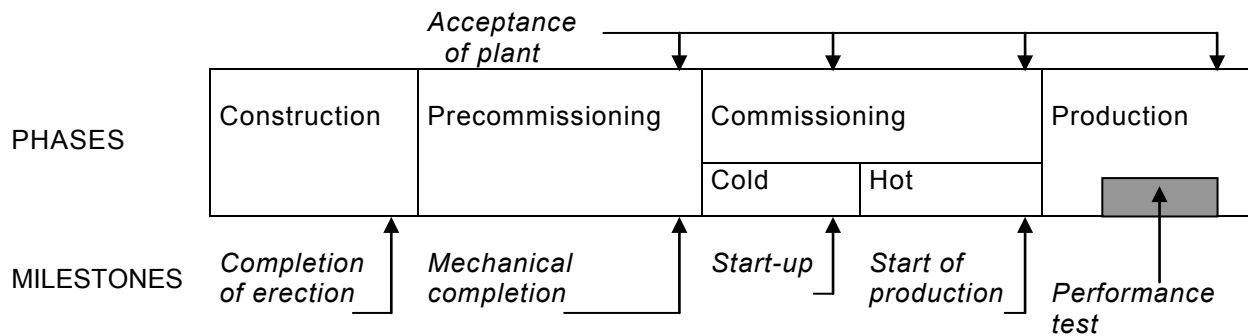
This standard is intended to lead to an improvement and acceleration of the negotiation phase and to a mutual understanding about the scope of the activities of each party.

COMMISSIONING OF ELECTRICAL, INSTRUMENTATION AND CONTROL SYSTEMS IN THE PROCESS INDUSTRY – SPECIFIC PHASES AND MILESTONES

1 Scope

This International Standard defines specific phases and milestones (see Figure 1) in the commissioning of electrical, instrumentation and control systems in the process industry. By way of example, it describes activities following the “completion-of-erection” milestone of the project and prior to the “acceptance-of-the-plant” phase by the owner. Such activities need to be adapted for each type of process/plant concerned.

NOTE This standard assumes that the “acceptance-of-the-plant” milestone will occur after the performance test. If there is a reduced scope, this document should be adapted accordingly.



NOTE Construction and precommissioning activities could be overlapping.

Figure 1 – Definition of phases and milestones

For application in the pharmaceutical or other highly specialized industries, additional guidelines (for example, *Good Automated Manufacturing Practice (GAMP)*), definitions and stipulations should apply in accordance with existing standards, for example, for GMP Compliance 21 CFR (FDA) and the Standard Operating Procedure of the European Medicines Agency (SOP/INSP/2003).

2 Normative references

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

IEC 62079, *Preparation of instruction – Structuring, content and presentation*

IEC 62424, *Representation of process control engineering – Requests in P&I diagrams and data exchange between P&ID tools and PCE-CAE tools*

ISO 10628-2, *Diagrams for chemical and petrochemical industry – Part 2: Graphical symbols*

ISA-S7.0.01, *Quality standard for instrument air*

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