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Process diagrams for power plants —

Part 2: Graphical symbols

Schémas de procédés pour centrales électriques —

Partie 2: Symboles graphiques

Reference number
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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT), see the following URL: Foreword — Supplementary information.

The committee responsible for this document is ISO/TC 10, *Technical product documentation*, Subcommittee SC 10, *Process plant documentation*.

ISO 14084 consists of the following parts, under the general title *Process diagrams for power plants*:

— *Part 1: Specification for diagrams*

— *Part 2: Graphical symbols*

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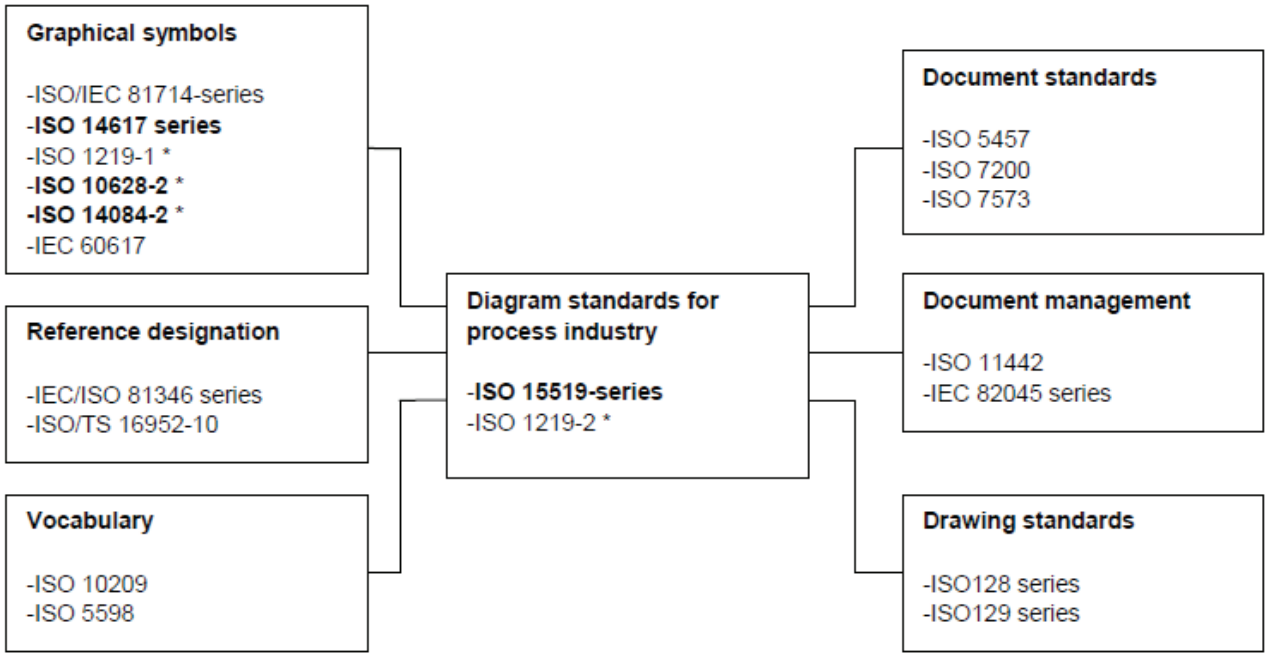
Introduction

General

This part of ISO 14084 deals with preparation of process diagrams for power plants.

ISO/TC 10/SC 10 prepares standards for diagrams including graphical symbols which together with standards prepared by other ISO committees and IEC constitute the basis for preparation of diagrams for process industry.

The interrelations between these standards are illustrated in Figure 1. Standards in bold are ISO/TC 10/SC 10 standards



NOTE Standards marked * are collective application standards.

Figure 1 — Interrelations between ISO and IEC standards for diagrams for power plants

Collective application standard

ISO/TC 10/SC 10 standards:

— ISO 15519-series: Specifications for diagrams for process industry;

— ISO 14617-series: Graphical symbols for diagrams;

are basic standards, which are general and apply to all fields of applications. Technical committees working in a specific application field are allowed to make extracts and publish them as collective application standards of ISO 15519-series, ISO 14617-series or both.

Application fields

This International Standard applies to the power plant field, which include conventional fossil and biomass fired power plants, hydro power plants, sea wave power plants, wind power plants, nuclear power plants, geothermal power plants, solar power plants, osmosis power plants, incineration plants, and industrial power plants.

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Process diagrams for power plants —

Part 2:
Graphical symbols

1 Scope

This part of ISO 14084 specifies graphical symbols for process diagrams for power plants and guidelines for creation of new graphical symbol examples.

This part of ISO 14084 is a collective application standard of the ISO 14617-series.

Graphical symbols for fluid power diagrams can be found in ISO 1219-1.

Graphical symbols for electrotechnical diagrams can be found in IEC 60617.

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.

ISO 10209, *Technical product documentation — Vocabulary — Terms relating to technical drawings, product definition and related documentation*

ISO 14617 (all parts), *Graphical symbols for diagrams*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in the ISO 15519-series and ISO 10209 and the following apply.

3.1
symbol example
graphical symbol created of basic and supplementary graphical symbols

4 Graphical symbols

4.1 General

Graphical symbols shall comply with ISO 14617-series.

General rules for graphical symbols are given in ISO 81714-1. Rules for CAx application of graphical symbols are given in IEC 81714-2.

Specific rules and guidelines for graphical symbols for use in diagrams are given in ISO 15519-1.

4.2 Size of graphical symbols

Graphical symbols in this part of ISO 14084 are shown in a grid system with module M = 2,5 mm.

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