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Graphic technology — Management of security printing processes

*Technologie graphique — Management des procédés d'impression de
sécurité*



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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 of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC130, *Graphic technology*.

This second edition cancels and replaces the first edition (ISO 14298:2013), which has been technically revised.

The main changes compared to the previous edition are as follows:

- definitions have been updated according to the latest version of ISO/IEC Directives, Part 1, Consolidated ISO Supplement;
- editorial changes have been applied;
- the lay-out has been updated.

A list of all parts in the ISO 14298 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

0.1 General

This document specifies requirements for a security printing management system for security printers.

Current security printing management practices lack sufficient guarantees that effective security controls are maintained to protect the interest of the customer as well as the general public. Using this document, the organization establishes, documents, implements and maintains a security printing management system. This security printing management system is regularly reviewed to continually improve its effectiveness. It is recognized that customer requirements sometimes exceed the requirements of this document, so the security printing management system also addresses customer requirements that are beyond the scope of this document.

The adoption of a security printing management system is a strategic decision of an organization. The design and implementation of an organization's security printing management system is influenced by varying needs, particular objectives, products provided, processes employed, security environment, cultural issues, legal limitations, risk assessment and by size and structure of the organization.

To achieve the objectives of this security printing management system standard, measures are taken to mitigate all of the security threats determined by an organizational risk assessment. Such controls focus upon reducing, eliminating and preventing acts that compromise the security printing management system of the organization.

It is not the intent of this document to obtain uniformity in the structure of the security printing management system or uniformity of documented information. The security printing management system complies with laws and regulations in force. The requirements specified in this document are supplementary to requirements for products and processes of an organization and allow for additional specific requirements from the customer.

This document is intended to apply to security printers. It contains requirements that when implemented by a security printer may be objectively audited for certification/registration purposes.

0.2 Process approach

This document promotes the adoption of a process approach when developing, implementing and improving the effectiveness of a security printing management system.

The application of a system of processes within an organization, together with the identification and interaction of these processes, and their management, is referred to as a "process approach". An advantage of a "process approach" is the ongoing control that it provides over the interaction between individual processes within the system of processes, as well as over their combination.

0.3 Basic principles

When implemented, the security printing management system:

- a) achieves the security of products, processes, means of production, premises, information, raw material supplies;
- b) is used to continue to meet demonstrably the requirements, and naturally, the needs of customers;
- c) affords management the confidence that the targeted degree of security is actually achieved and remains effective;
- d) affords the customers the confidence that the agreed nature and degree of security is or will be attained.

This document prescribes which elements a security printing management system contains and not how a specific organization implements these elements.

Graphic technology — Management of security printing processes

1 Scope

This document specifies requirements for a security printing management system for security printers.

This document specifies a minimum set of security printing management system requirements. Organizations ensure that customer security requirements are met as appropriate, provided these do not conflict with the requirements of this document.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

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

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

3.1

organization

person or group of people that has its own functions with responsibilities, authorities and relationships to achieve its *objectives* (3.8)

Note 1 to entry: The concept of organization includes but is not limited to sole-trader, company, corporation, firm, enterprise, authority, partnership, charity or institution, or part or combination thereof, whether incorporated or not, public or private.

3.2

interested party stakeholder

person or *organization* (3.1) that can affect, be affected by, or perceive itself to be affected by a decision or activity

3.3

requirement

need or expectation that is stated, generally implied or obligatory

Note 1 to entry: “Generally implied” means that it is custom or common practice for the organization and interested parties that the need or expectation under consideration is implied.

Note 2 to entry: A specified requirement is one that is stated, for example in documented information.

3.4

management system

set of interrelated or interacting elements of an *organization* (3.1) to establish *policies* (3.7) and *objectives* (3.8), and *processes* (3.12) to achieve those objectives

Note 1 to entry: A management system can address a single discipline or several disciplines.

图形技术 - 安全印刷过程管理

图形技术 - 安全印刷过程管理

奥邦检验认证集团有限公司翻译
内部资料



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在瑞士出版

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前言

国际标准化组织（ISO）是由各国标准化机构（ISO 成员机构）组成的全球性联合组织。国际标准的制定工作通常由 ISO 技术委员会负责。凡对已设立技术委员会的某一主题感兴趣的成员机构均有权在该委员会中派代表。与 ISO 保持联络的国际组织（政府组织和非政府组织）也参与相关工作。ISO 在所有电气技术标准化事务方面与国际电工委员会（IEC）密切合作。

本文件的编制程序以及其后续维护所采用的程序在 ISO/IEC 指令第 1 部分中有详细说明。尤其应注意不同类型的 ISO 文件所需的不同批准标准。本文件是依照 ISO/IEC 指令第 2 部分的编辑规则起草的（见 www.iso.org/directives）。

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有关标准自愿性的说明、与合格评定相关的 ISO 特定术语和表达的含义，以及 ISO 遵守世界贸易组织（WTO）技术性贸易壁垒（TBT）原则的信息，请访问 www.iso.org/iso/foreword.html。

本文件由国际标准化组织/技术委员会 ISO/TC130（图形技术）编制。

本第二版废止并取代了第一版（ISO 14298:2013），并对其进行了技术修订。

与上一版相比，主要变化如下：

定义已根据 ISO/IEC 指令第 1 部分最新版《综合 ISO 补编》进行了更新。

已进行了编辑修改；

布局已更新。

国际标准化组织（ISO）14298 系列的所有部分清单可在 ISO 网站上找到。

关于本文件的任何反馈或问题应提交给用户所在国家的标准机构。这些机构的完整列表可在 www.iso.org/members.html 查找。

引言

0.1 总则

本文件规定了安全印刷管理体系的要求。

当前的安全印刷管理实践缺乏足够的保障措施，无法确保有效的安全控制得以维持，从而保护客户及公众的利益。通过本文件，组织建立、记录、实施并维护安全印刷管理体系。该安全印刷管理体系会定期接受审查，以持续提高其有效性。同时，组织认识到客户的要求有时会超出本文件的规定，因此该安全印刷管理体系也会处理超出本文件范围的客户要求。

采用安全印刷管理体系是组织的一项战略决策。组织安全印刷管理体系的策划和实施会受到不同需求、特定目标、所提供产品、所采用流程、安全环境、文化因素、法律限制、风险评估以及组织规模和结构的影响。

为实现本安全印刷管理体系标准的目标，应采取措施减轻组织风险评估所确定的所有安全威胁。此类控制措施侧重于减少、消除和预防损害组织安全印刷管理系统的各种行为。

本文件无意求得安全印刷管理体系结构的统一或文件化信息的统一。安全印刷管理体系符合现行法律法规。本文件中规定的要求是对组织产品和过程要求的补充，并允许有客户的额外特定要求。

本文件适用于安全印刷者。其中包含的要求，若由安全印刷者予以实施，则可为认证/注册目的进行客观审核。

0.2 过程方法

本文件提倡在开发、实施和改进安全印刷管理体系的有效性时采用过程方法。

在组织内部应用一套流程体系，连同对这些流程的识别、相互作用及其管理，被称为“过程方法”。采用“过程方法”的一个优点在于，它能够对流程体系内各个流程之间的相互作用以及它们的组合进行持续控制。

0.3 基本原理

当该安全印刷管理系统得以实施时：

- a) 实现产品、工艺、生产设备、场所、信息、原材料供应的安全；
- b) 用于持续明显地满足要求，并且自然地满足客户的需求；
- c) 使管理层确信已达到预期的安全程度并且该程度持续有效；
- d) 使客户确信已达成或即将达成约定的安全性质和程度。

本文件规定了安全印刷管理系统应包含哪些要素，而非具体说明某一组织应如何实施这些要素。

图形技术 - 安全印刷过程管理

1 范围

本文件规定了安全印刷者安全印刷过程管理系统的要求。

本文件规定了安全印刷过程管理体系的基本要求。组织应确保满足客户的适当安全要求，但这些要求不得与本文件的要求相冲突。

2 规范性引用文件

本文件中无规范性引用文件。

3 术语和定义

就本文件而言，以下术语和定义适用。

国际标准化组织（ISO）和国际电工委员会（IEC）在以下网址维护用于标准化工作的术语数据库：

国际标准化组织在线浏览平台：访问网址为 <https://www.iso.org/obp>

国际电工委员会电工术语在线词典：网址为
<https://www.electropedia.org/>

3.1

组织

具有自身职能、责任、权力和关系以实现其目标的个人或群体（3.8）

注 1：组织的概念包括但不限于个体经营者、公司、企业、商行、企业集团、当局、合伙企业、慈善机构或机构，或其部分或组合，不论是否注册成立，也不论是公有还是私有。

3.2

利益相关方

能够影响、受某项决策或活动影响或自认为受其影响的个人或组织（3.1）

3.3

要求

明确提出的、通常隐含的或必须满足的需求或期望

注 1：此处“通常隐含”是指组织和相关方之间存在惯例或共同理解，即所考虑的需求或期望是隐含的。

注 2：规定要求是指已作出陈述的要求，例如在文件中作出的规定。

3.4

管理体系

组织中相互关联或相互作用的一组要素（3.1），用于制定方针（3.2）和目标（3.8），以及实现这些目标的过程（3.12）

注 1：管理体系可以涉及一个或多个学科领域。

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