

PUBLICLY
AVAILABLE
SPECIFICATION

ISO/PAS
30006

First edition
2010-06-01

**Ship recycling management systems —
Diagrams to show the location of
hazardous materials onboard ships**

*Systèmes de management de recyclage des navires — Illustrations
montrant l'emplacement des matières dangereuses à bord des navires*

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[ISO/PAS 30006:2010](https://standards.iteh.ai/catalog/standards/sist/ecdf6afb-3f77-495c-a05d-8a5e41eaa8af/iso-pas-30006-2010)

<https://standards.iteh.ai/catalog/standards/sist/ecdf6afb-3f77-495c-a05d-8a5e41eaa8af/iso-pas-30006-2010>



Reference number
ISO/PAS 30006:2010(E)

© ISO 2010

PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[ISO/PAS 30006:2010](https://standards.iteh.ai/catalog/standards/sist/ecdf6afb-3f77-495c-a05d-8a5e41eaa8af/iso-pas-30006-2010)

<https://standards.iteh.ai/catalog/standards/sist/ecdf6afb-3f77-495c-a05d-8a5e41eaa8af/iso-pas-30006-2010>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2010

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

In other circumstances, particularly when there is an urgent market requirement for such documents, a technical committee may decide to publish other types of document:

- an ISO Publicly Available Specification (ISO/PAS) represents an agreement between technical experts in an ISO working group and is accepted for publication if it is approved by more than 50 % of the members of the parent committee casting a vote.
- an ISO Technical Specification (ISO/TS) represents an agreement between the members of a technical committee and is accepted for publication if it is approved by 2/3 of the members of the committee casting a vote.

ISO/PAS 30006:2010

An ISO/PAS or ISO/TS is reviewed after three years in order to decide whether it will be confirmed for a further three years, revised to become an International Standard, or withdrawn. If the ISO/PAS or ISO/TS is confirmed, it is reviewed again after a further three years, at which time it must either be transformed into an International Standard or be withdrawn.

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.

ISO/PAS 30006 was prepared by Technical Committee ISO/TC 8, *Ships and marine technology*.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[ISO/PAS 30006:2010](https://standards.iteh.ai/catalog/standards/sist/ecdf6afb-3f77-495c-a05d-8a5e41eaa8af/iso-pas-30006-2010)

<https://standards.iteh.ai/catalog/standards/sist/ecdf6afb-3f77-495c-a05d-8a5e41eaa8af/iso-pas-30006-2010>

Ship recycling management systems — Diagrams to show the location of hazardous materials onboard ships

IMPORTANT — The electronic file of this document contains colours which are considered to be useful for the correct understanding of the document. Users should therefore consider printing this document using a colour printer.

1 Scope

This Publicly Available Specification provides requirements for diagrams to show the location of hazardous materials onboard ships. Such diagrams help ship recyclers understand an inventory of hazardous materials, a document that is required by the *Hong Kong International Convention for the Safe and Environmentally Sound Recycling of Ships*, 2009. This Publicly Available Specification is also helpful to any person required to prepare an inventory.

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.

The Hong Kong International Convention for the Safe and Environmentally Sound Recycling of Ships, 2009

3 Terms and definitions

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

3.1

IMO guidelines

document developed by the IMO that gives guidelines for the development of the inventory of hazardous materials

NOTE See Reference [1].

3.2

inventory

inventory of hazardous materials

NOTE The inventory is a requirement for recycling ships that is specified by the *Hong Kong International Convention for the Safe and Environmentally Sound Recycling of Ships*.

4 Target materials and goods for the diagram

The target materials and goods for the diagram are chosen from amongst the items set out in the Appendix 1 of the Annex of the *Hong Kong International Convention for the Safe and Environmentally Sound Recycling of Ships*, 2009. The diagram shall include

- coating systems,
- equipment,
- machinery,
- structures, and
- hulls

containing hazardous materials as specified in Table A of Appendix 1 of the IMO Guidelines.

5 Timing of development of the diagram

The diagram of the materials listed in Clause 4 shall be developed when Part I of the inventory is developed; it shall be maintained and updated at intervals to ensure consistency with the inventory.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

6 Plans and/or drawings to be used for the diagram

6.1 Size of the plans and/or drawings

ISO/PAS 30006:2010

Electronic and scalable drawings are recommended. Alternatively, drawings should be of a size allowing easy identification of the locations onboard to be included in the diagram, see Figures A.3 and A.4 for examples.

6.2 Plans to be used for the diagram

6.2.1 General

The general arrangement plan, engine room arrangement plan, accommodation plan and tank arrangement plan shall be used for the diagram.

The engine room arrangement plan and accommodation plan shall be used for the engine room and accommodation area, where machinery and equipment containing hazardous materials are mainly used.

The general arrangement plan and tank arrangement plan shall be used for other areas.

6.2.2 Engine room arrangement plan

Machinery and equipment containing the materials listed in Clause 4 that are located in an engine room shall be illustrated in the engine room arrangement plan. The diagram shall be developed for each deck. All the decks shall be covered.

6.2.3 Accommodation plan

Machinery and equipment containing the materials listed in Clause 4 that are located in an accommodation area shall be illustrated in the accommodation plan. The diagram shall be developed for each deck. All the decks shall be covered.

6.2.4 General arrangement plan

The location of the following items shall be illustrated in the general arrangement plan:

- machinery and equipment containing the materials listed in Clause 4 that cannot be illustrated in the engine room arrangement plan and accommodation plan;
- areas where coating systems containing the materials listed in Clause 4 are applied.

These diagrams shall be developed separately in order to avoid confusion.

7 Manner for diagram of location of hazardous materials

The location of machinery and equipment shall be illustrated in the diagrams in the manner shown in Figure 1.

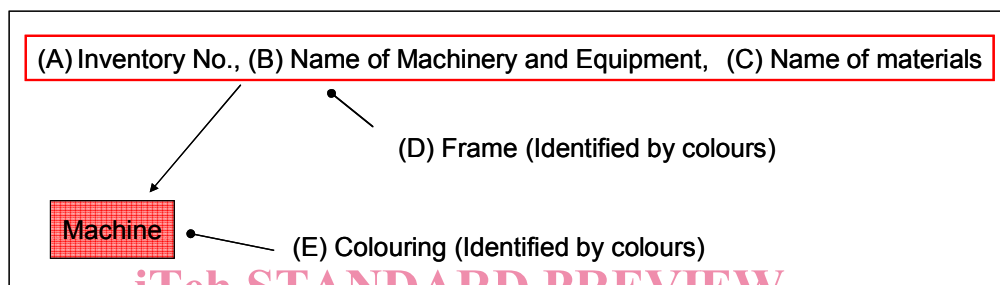


Figure 1 — Manner for diagram of location of hazardous materials

7.1 (A) Inventory No.

ISO/PAS 30006:2010
<https://standards.iteh.ai/catalog/standards/sist/ccdf6afb-3f77-495c-a05d-8a5e41ea8af/iso-pas-30006-2010>

“Inventory No.” is a number assigned in the inventory for the purpose of identifying individual items contained therein (e.g. coating system, machinery, equipment). For example, in Figure 2, “Inventory No.” of the switch board is I-2.1. The inventory number shall be entered in order to clarify linkage between the diagram and the inventory.

I-2 Equipment and machinery containing materials listed in Table A and Table B of appendix 1 of the guidelines

No.	Name of equipment and machinery	Location	Materials (classification in appendix 1)	Parts where used	Approx. quantity	Remarks
1	Switch board	Engine control Room	Cadmium	Housing coating	0.02 kg	
			Mercury	Heat gauge	<0.01 kg	less than 0.01kg
2	Diesel engine, xx Co., xx #150	Engine room	Cadmium	Bearing	0.02 kg	
3	Diesel engine, xx Co., xx #200	Engine room	Cadmium	Bearing	0.01 kg	Revised by XXX on Oct. XX, 2008
4	Diesel generator (x 3)	Engine room	Lead	Ingredient of copper compounds	0.01 kg	

In this example, Inventory No. of the Switch Board is “I-2.1”.

Figure 2 — Example of “Inventory No.”.

7.2 (B) Name of equipment and machinery

The name of equipment and machinery or paint used in the inventory shall be entered.

7.3 (C) Name of materials

The name of materials used in the inventory shall be entered.

EXAMPLE Asbestos, polychlorinated biphenyls (PCBs).

7.4 (D) Frame

A frame shall be drawn around “Inventory No.,” “Name of equipment and machinery” and “Name of materials” in order to help their identification. The colour of the frame should be red.

7.5 (E) Colouring

The location of the machinery and equipment in the diagrams should be coloured in red to provide clear and easy identification.

7.6 Materials which are included in the inventory but not relevant for the diagram

It is not practical to show all the materials that exist in various locations (e.g. electric cables, pipes). Even though such materials are listed in the inventory, it is not required to illustrate them. In order to prevent such materials being disregarded, they shall be given in a list attached to the diagram. An example of such a list is given in Figure A.10.

8 Diagram of sampling points

When the inventory of existing ships is developed, sampling points shall be illustrated in the diagram. Symbols of the sampling points are given in Figure 3. When available, the results of visual checks should be included in the diagram.

<https://standards.iteh.ai/catalog/standards/sist/ecdf6afb-3f77-495c-a05d-8a5e41eaa8af/iso-pas-30006-2010>

Sample/P	Containing Hazardous Materials
Sample/P	Not Containing Hazardous Materials

Figure 3 — Symbols of sampling point

Annex A (informative)

Examples of diagrams showing the location of hazardous materials

A.1 Example of the diagram

The figures in this annex provide examples, guidance and good practice in illustrating the location of hazardous materials.

Legend;

Table A/B/C	Colour	Items
A		Inventory No., Paint/ Equipment/ System and/or Area [Materials]

Check point of sampling	
Sample/P (Name of sampling object [Materials])	Contained
Sample/P (Name of sampling object [Materials])	Not contained

iTech STANDARD PREVIEW
(standards.itech.ai)

ISO/PAS 30006:2010

<https://standards.itech.ai/catalog/standards/sist/ecdf6afb-3f77-495c-a05d-8a5e41eaa8af/iso-pas-30006-2010>

Figure A.1 — Examples of colours and symbols for diagrams

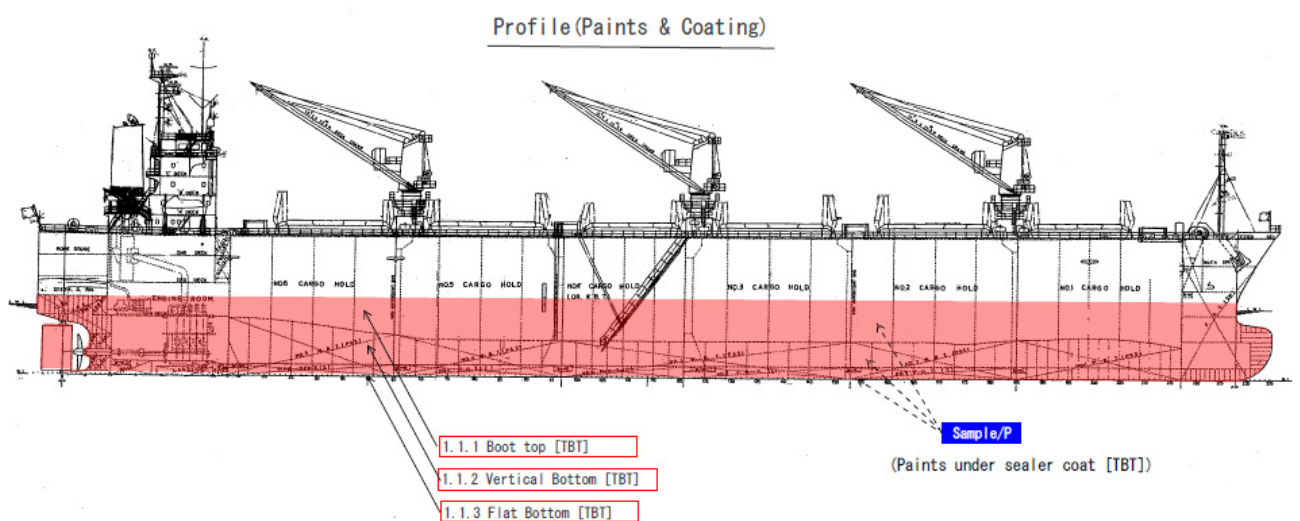


Figure A.2 — Example showing location of tributyltin (TBT) coating systems