BS ISO 30006:2010

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

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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

Reference number
ISO 30006:2010(E)

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

This first edition of ISO 30006 cancels and replaces 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 International Standard 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 International Standard 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

IMO Resolution MEPC.179(59), *Guidelines for the Development of the Inventory of Hazardous Materials*

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 IMO Resolution MEPC.179(59).

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 shall be chosen from amongst the items set out in 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.

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

6.1 Size of the plans and/or drawings

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.

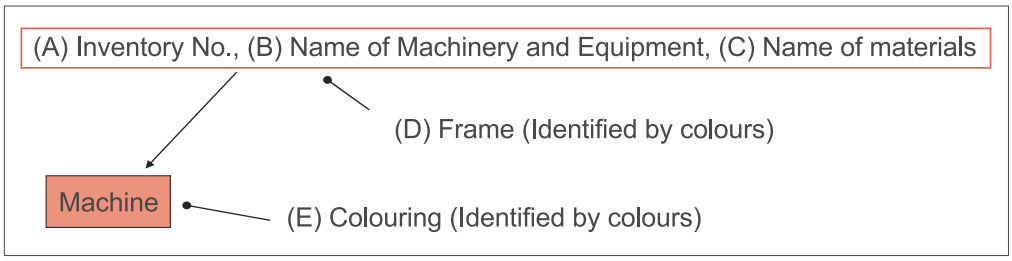

Figure 1 —Manner for diagram of location of hazardous materials

7.1 (A) Inventory No.

“ Inventory No.” is a number assigned in the inventory fothe 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 “1.2.1”.

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 from 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.

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

Figure 3 —Symbols of sampling points

Annex A
(informative)

Examples of diagrams showing the location of hazardous materials

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

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

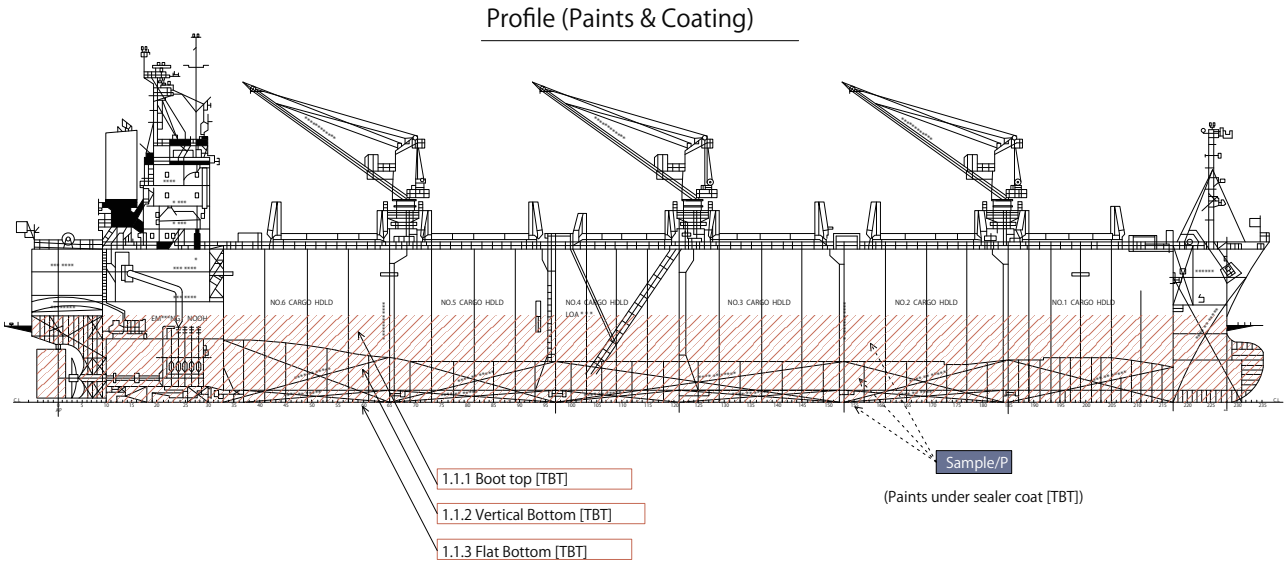

Figure A.2 —Example showing location of tributyltin (TBT) coating systems

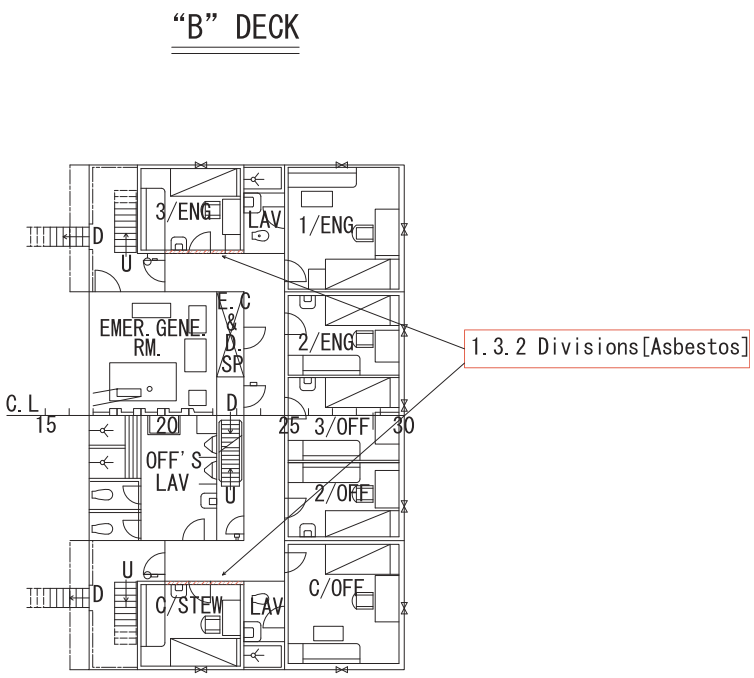

Figure A.3 —Example showing locati on of divisions containing asbestos

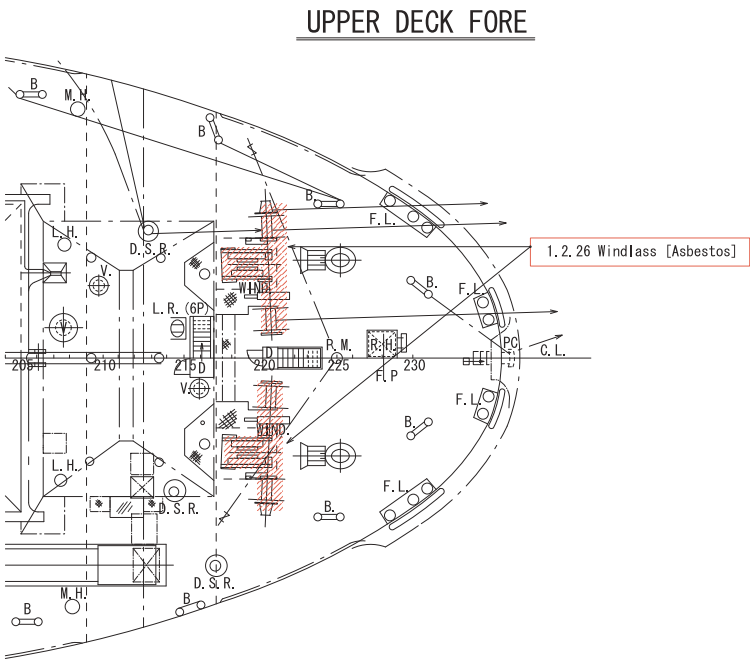

Figure A.4 —Example showing upper-deck machinery containing asbestos

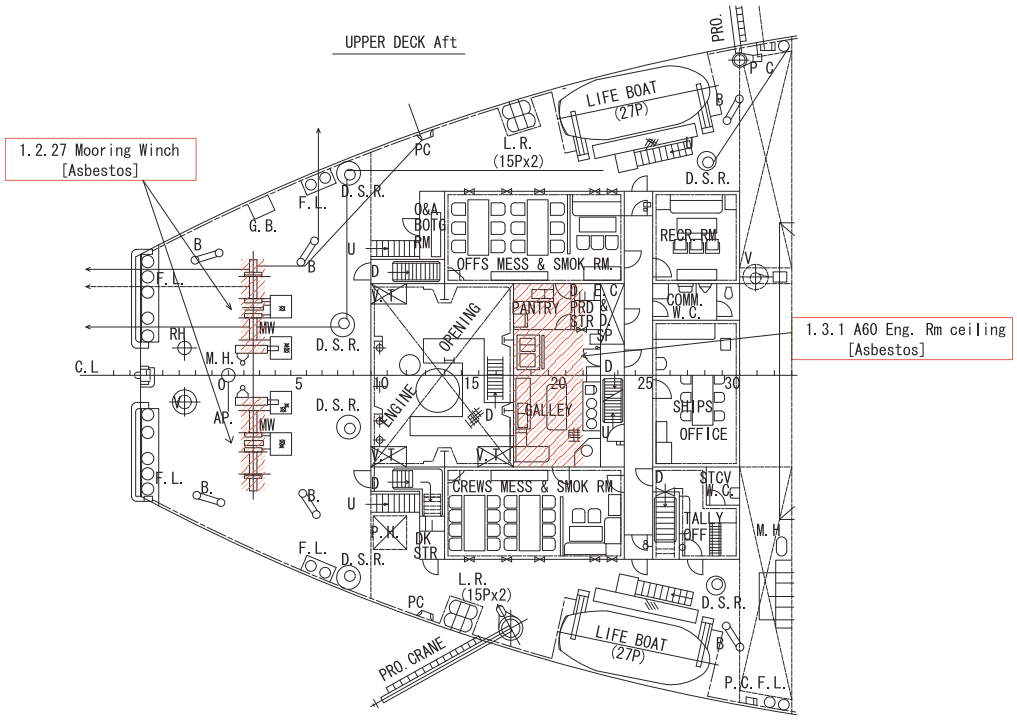

Figure A.5 —Example showing aft upper- deck machinery containing asbestos

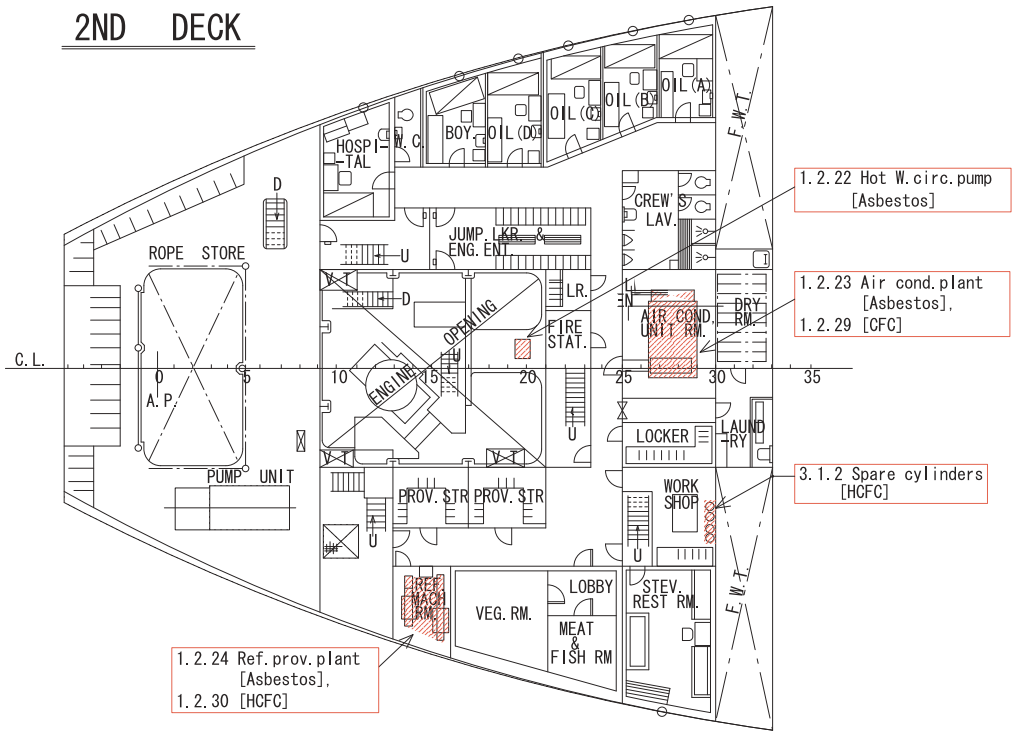

Figure A.6 —Example showing 2nd deck hazardous materials

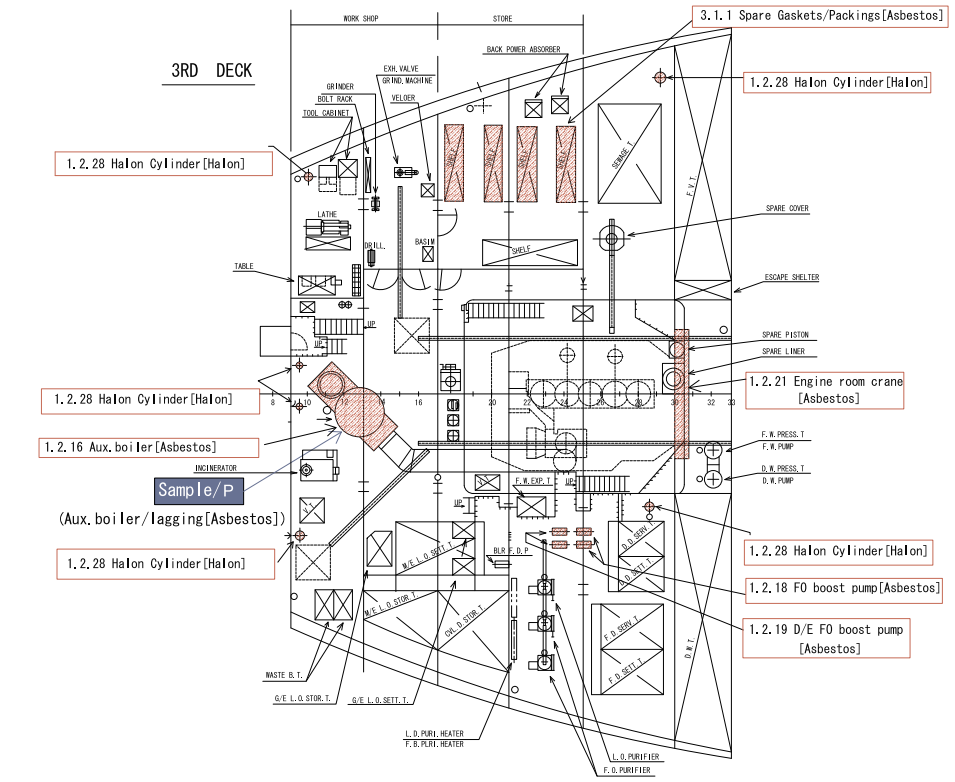

Figure A.7 —Example showing 3rd deck hazardous materials

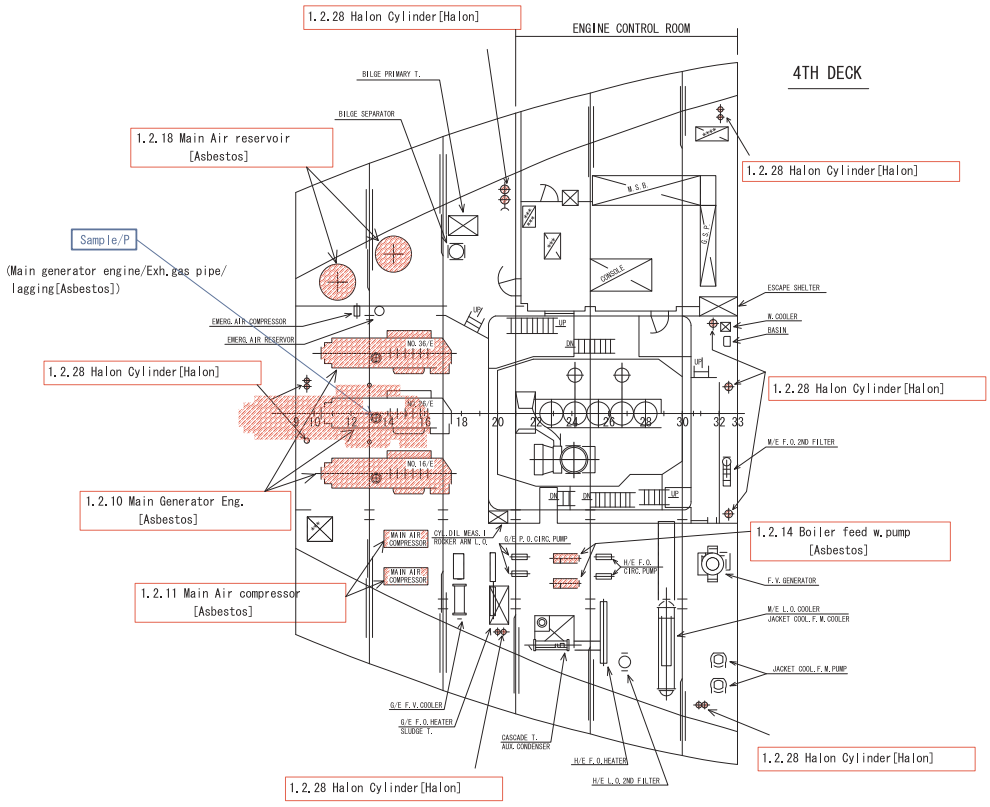

Figure A.8 —Example showing 4th deck hazardous materials

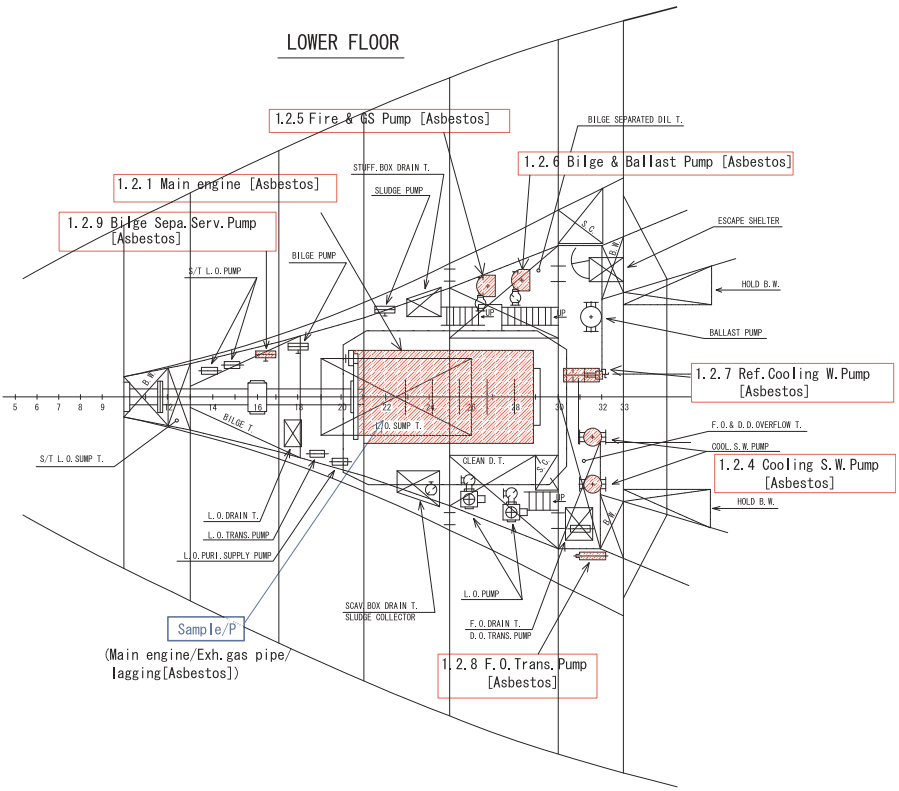

Figure A.9 —Example showing lo wer-floor location of asbestos

Figure A.10 lists materials that are included in the inventory but that are not relevant for the diagram.

No.	Name of equipment and machinery	Location	Materials (classification in Appendix 1)	Parts where used	Approx. quantity		Remarks
1	Electric cable	In all spaces	PCB	Insulation	0,01	kg	

Figure A.10 —Example of the list of materials that are included in the inventory but are not shown in the diagram

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Price based on 9 pages

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