
**Ships and marine technology — Ship
recycling management systems —
Specifications for management systems
for safe and environmentally sound ship
recycling facilities**

*Navires et technologie maritime — Systèmes de management de
recyclage des navires — Spécifications relatives aux systèmes de
management pour les chantiers de recyclage des navires, sûrs et non
polluants*



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.



COPYRIGHT PROTECTED DOCUMENT

© ISO 2009

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

Contents

Page

Foreword.....	iv
Introduction	v
1 Scope	1
2 Normative references	2
3 Terms and definitions.....	2
4 Ship recycling facility management system requirements	4
4.1 General requirements.....	4
4.2 Ship recycling policy (recycling policy)	4
4.3 Planning	5
4.4 Implementation and operation	6
4.5 Checking.....	10
4.6 Management review and continual improvement	12
Annex A (informative) Comparison of ISO 30000:2008 and the planned IMO International Convention of the safe and environmentally sound recycling of ships	13
Bibliography	16

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.

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 30000 was prepared by Technical Committee ISO/TC 8, *Ships and marine technology*.

This first edition of ISO 30000 cancels and replaces ISO/PAS 30000:2008, which has been technically revised.

Introduction

This International Standard has been developed in response to demand from industry for a ship recycling standard.

NOTE This International Standard is based on the methodology known as Plan-Do-Check-Act (PDCA). PDCA can be described as follows.

- Plan: establish the objectives and processes necessary to deliver results in accordance with the organization's ship recycling policy.
- Do: implement the processes.
- Check: monitor and measure processes against recycling policy, objectives, targets, legal and other requirements, and report results.
- Act: take actions to continually improve performance of the recycling management system.

Ships and marine technology — Ship recycling management systems — Specifications for management systems for safe and environmentally sound ship recycling facilities

1 Scope

This International Standard specifies requirements for a management system to enable a ship recycling facility to develop and implement procedures, policies and objectives in order to be able to undertake safe and environmentally sound ship recycling operations in accordance with national and international standards. The management system requirements take into account the relevant legal requirements, safety standards and environmental elements that the ship recycling facility needs to identify and comply with in order to carry out safe and environmentally sound ship recycling.

This International Standard applies to the entire process: accepting a ship for recycling by the facility; assessing the hazards onboard the ship; identifying and complying with any applicable notification and import requirements for ships to be recycled; carrying out the recycling process in a safe and environmentally sound manner; conducting required training; ensuring the availability of social amenities (e.g. first aid, health checks, food and beverages); storage and processing of materials and wastes from the ship; waste stream and recycling stream management, including contractual agreements; and documentation controls for the process, including any applicable notification of the final disposal of the vessel.

This International Standard is applicable to any ship recycling facility that wishes to:

- a) establish, implement, maintain and improve a safe and environmentally sound management system for the recycling of ships;
- b) assure itself of conformity with its stated safe and environmentally sound management policy;
- c) demonstrate conformity with this International Standard by
 - 1) making a self-determination and self-declaration, or
 - 2) seeking confirmation of its conformance by parties having an interest in the facility such as customers, or
 - 3) seeking confirmation of its self-declaration by a party external to the organization, or
 - 4) seeking certification/registration of its management system by an external organization.

All the requirements of this International Standard are intended to be incorporated into the management systems of any ship recycling facility. In order to be in compliance with this International Standard, the management systems will address all requirements.

A comparison of this International Standard and the planned IMO International Convention for the safe and environmentally sound recycling of ships is given in Annex A.

2 Normative references

No normative references are cited. This clause is included to enable numeric consistency and comparison with similar International Standards.

3 Terms and definitions

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

3.1
audit
systematic, independent and documented process for obtaining audit evidence and evaluating it objectively to determine the extent to which the management system audit criteria set by the facility are fulfilled

3.2
auditor
person with the demonstrated personal attributes and competence to conduct an audit

[ISO 9000:2005, 3.9.9]

3.3
continual improvement
process of enhancing the management system, to achieve improvements in overall safety and environmental performance, in line with the organization's **ship recycling management policy** (3.19)

NOTE The process need not take place in all areas of activity simultaneously.

3.4
hazard
source or situation with a potential for harm in terms of human injury or ill health (both short and long term), damage to property, damage to the environment, or a combination of these

3.5
hazardous material
item, element or substance with a potential for harm in terms of human injury or ill health (both short and long term), damage to property, damage to the environment, or a combination of these

3.6
import
procedure(s) and action(s) followed to enable a ship to arrive at the ship recycling facility or handover from another location; including gaining any necessary agreements, notifications, and licenses from relevant authorities, the physical process of safely navigating the vessel and the contractual and certificateable roles and responsibilities

3.7
interested party
person or group concerned with or affected by the safety and environmental performance of the facility, including workers and subcontractors at the facility or at other works used by the facility, and the public at large

3.8
nonconformity
non-fulfilment of a requirement

[ISO 9000:2005, 3.6.2]

3.9**notification**

method, procedure or process that ensures that any relevant and required notices are communicated at appropriate times to the appropriate parties and any necessary permissions received

3.10**organization**

company, corporation, firm, enterprise, authority or institution, person or persons or part or combination thereof, whether incorporated or not, public or private, that has its own functions and administration

3.11**preventive action**

action to eliminate the cause of a potential **nonconformity** (3.8)

3.12**procedure**

specified way to carry out an activity or a process

3.13**recycle**, verb

accept (prepare, purchase and import) and dismantle a ship, and transport and dispose of or re-use the materials, items or components

NOTE May be used to describe any related activity within the recycling facility.

3.14**recycling aspect**

element of a recycling facility's operations, procedures, activities, waste management, contracting, dismantling, storage, separation, processing, disposal, recycling, re-use, re-selling or trading that has, or potentially has, influence on health, safety, environmental or legal requirements

NOTE A significant recycling aspect has or can have a significant **recycling impact** (3.15).

3.15**recycling impact**

effect on health, safety, environmental or legal requirements, whether adverse or beneficial, wholly or partially resulting from aspects of the recycling facility's operations

3.16**safety**

arrangements, conditions and working environment such that all conditions and factors that affect the well-being of employees, temporary workers, contractor personnel, managers, visitors and any other person in the workplace are in accordance with required standards for occupational health and safety performance, and such that there is freedom from an unacceptable risk of harm, or some higher standard as specified in the policy, targets or objectives

3.17**ship**

vessel or floating structure of any type, size or construction that is to be recycled in the facility according to this document

3.18**ship recycling facility**

defined area, site, yard or facility, including the organization that manages it, used for recycling of ships

NOTE Referred to within this International Standard as 'facility' for shorthand.

3.19

ship recycling management policy

ship recycling policy

overall intentions and direction of an organization related to its health, safety, welfare and environmental performance as formally expressed by top management

NOTE The ship recycling policy provides a framework for action and for the setting of objectives and targets.

3.20

ship recycling management target

specific level of performance required to achieve a ship recycling management objective

3.21

ship recycling management objective

specific outcome or achievement required in order to meet the ship recycling management policy

3.22

ship recycling management programme

means by which a ship recycling management objective is achieved

3.23

stakeholder

person or party with financial or legally mandated interest in the ship or the recycling process of the ship or facility

NOTE Stakeholders include at least the shipowner, the flag state of the ship, the recycling facility top management and the national authority of the state where the recycling facility is located.

3.24

top management

person or group of people who directs and controls an organization at the highest level

4 Ship recycling facility management system requirements

4.1 General requirements

The recycling facility shall establish, document, implement, maintain and continually improve an effective management system for the safe and environmentally sound recycling of ships in accordance with the requirements of this International Standard and determine how it will fulfil these requirements.

The facility shall define and document the scope of its management system.

4.2 Ship recycling policy (recycling policy)

The top management shall define the facility's ship recycling policy and ensure that, within the defined scope of the management system, it

- a) ensures proper standards of safety throughout the operations of the facility, and include a commitment to human health, welfare, safety and the environment,
- b) ensures environmentally sound recycling of ships and include a commitment to prevention of pollution,
- c) includes a commitment to comply with applicable legal requirements and with other requirements to which the facility subscribes,
- d) provides a framework for setting and reviewing safety and environmental performance as well as targets and objectives,

- e) is documented, implemented, reviewed and maintained,
- f) commits to continual improvement,
- g) is communicated to all persons working for or on behalf of the facility and is understood by them, and
- h) is available to interested parties.

4.3 Planning

4.3.1 Recycling aspects

The facility shall establish, implement and maintain procedure(s)

- a) to identify the recycling aspects of its activities, operations, and procedures within the scope of the recycling management system it can control and those that it can influence taking into planned or new developments, or new or modified activities, products or services,
- b) to identify what hazardous materials, and other hazardous items the facility is able to recycle and the hazardous materials and other hazardous items the facility plans to be able to recycle,
- c) to assess the ships it is planning to recycle relative to the presence of these materials in association with the acceptance and import of such ships, and the ability of the facility to recycle these materials,
- d) to prepare for and plan the recycling of ships, and to have system to enable planning and preparation to be done for each individual ship the facility intends to recycle, and
- e) to determine those aspects that have or can have significant impact(s) on the recycling operation (e.g. significant aspect(s)).

The procedures shall include routine and non-routine activities, activities and welfare of all personnel having access to the facility including subcontractors, ships personnel and visitors, and workshops, laboratories or other equipment provided whether by the facility itself or others.

The facility shall document this information and keep it up to date.

The facility shall ensure that the significant aspects are taken into account in establishing, implementing and maintaining its management systems.

4.3.2 Legal, statutory and other requirements

The facility shall establish, implement and maintain a procedure(s)

- a) to identify and have access to the applicable legal requirements and other requirements to which the facility is subject, whether due to international legislation, national legislation or local requirements, or to which it subscribes, related to its recycling aspects, and
- b) to determine how these requirements apply to its recycling aspects.

The facility shall ensure that these applicable legal requirements and other requirements to which the facility subscribes are taken into account in establishing, implementing and maintaining its management system.

The facility shall keep this information up to date. It shall communicate relevant information on legal and other requirements to its employees and other relevant suppliers, contractors or organizations on whose services the recycling aspects of the facility depends.

4.3.3 Ship recycling management objectives, targets and programmes

The facility shall establish, implement and maintain documented recycling management objectives and targets at relevant functions and levels within the organization.

The objectives and targets shall be measurable and consistent with the management policy, including the commitments to prevention of pollution, to health, welfare, safety and environmentally sound recycling, to compliance with applicable legal requirements and with other requirements to which the facility subscribes, and to continued improvement.

When establishing and reviewing its objectives and targets, an organization shall take into account:

- a) legal, statutory and other regulatory requirements;
- b) significant recycling aspects;
- c) safety, pollution and environmental requirements;
- d) technological and other options;
- e) financial, operational and business requirements;
- f) views of interested parties.

Targets shall be derived from the objectives, and shall be to an appropriate level of detail, specific, measurable, achievable, relevant and time based where practicable.

Objectives and targets should be quantified where practicable, communicated to all relevant employees and stakeholders, including contractors and suppliers, with the intent that these persons are made aware of their individual obligations.

Objectives and targets should be reviewed periodically to ensure they remain relevant and consistent with the management policy. Where necessary the objectives and targets should be amended accordingly.

The facility shall establish, implement, maintain and review recycling management programmes for achieving its objectives and targets.

The programmes shall be optimised and prioritised, and the facility shall provide measures and activities for the efficient and cost effective implementation of these programmes.

The programmes shall be documented and shall include

- the designated responsibility and authority for achieving the objectives and targets,
- the means and time-scale by which the objectives and targets are to be met.

NOTE This process should be undertaken by a team of suitably qualified and experienced persons who can contribute to the evaluation process and ensure the planning is practical and effective.

4.4 Implementation and operation

4.4.1 Structure, resources, roles responsibility and authority

The top management shall ensure the availability of resources essential to establish, implement, maintain and improve the recycling management system. Resources including human resources and specialised skills, organizational infrastructure, occupational health, safety and the environment, equipment technology, training and financial resources shall be detailed within the management systems.

Roles, responsibilities and authority shall be defined, documented and communicated to the individuals responsible for implementation and maintenance. The organizational structure shall be communicated to all persons working for the facility and to all contractors to the facility. It shall be available to all interested parties.

The top management shall appoint specific management representative(s) who, irrespective of other responsibilities, shall have defined roles, responsibilities and authority for

- a) ensuring that the management system is established, implemented and maintained in accordance with the requirements of this International Standard,
- b) ensuring that the management system is effective in delivering safe and environmentally friendly ship recycling,
- c) ensuring any required controls, certificates, consents, permissions and notifications are properly controlled and documented,
- d) ensuring that the improvement goals are met in a timely manner or report to top management any discrepancies or possible delays, and
- e) reporting to top management on the performance of the management system for review including recommendations for improvement.

Ultimate responsibility for occupational health and safety as well as environmental performance rests with top management.

4.4.2 Competence, training and awareness

The facility shall ensure that any person(s) performing tasks for it or on its behalf, or for managing or performing any related recycling duties such as contracting, import, dismantling, storage, processing, disposal or reuse etc, is (are) competent on the basis of appropriate education, training, certification or experience, and shall retain associated records.

The facility shall identify training and awareness needs associated with its recycling aspects and its safe and environmentally sound recycling operation, and to include those required by law. It shall provide training and awareness programmes or take other action to meet these needs, and shall retain associated records.

The facility shall establish, implement and maintain a procedure(s) to ensure or make persons or organizations working for it, on its behalf, or performing any related recycling duties aware of

- a) legal, statutory or other regulatory requirements,
- b) the importance of conformity with the management policy and procedures and with the requirements of the recycling management system,
- c) the significant recycling aspects and related or actual impacts associated with their work, and the benefits of improved personal safety and environmental performance,
- d) their roles and responsibilities in achieving conformity with the requirements of the recycling management system, and
- e) the potential consequences of deviation from specified procedures.

Records of competence and training shall be kept.

Training procedures shall take into account differing levels of responsibility, ability, and literacy and shall be conducted in a manner and language to ensure comprehension among all personnel receiving training.

4.4.3 Communication

The facility shall establish, implement and maintain procedure(s) for

- a) internal communication among the various levels, functions and departments of the facility,
- b) receiving, documenting and responding to relevant communication from external interested parties,
- c) establishing proper documentary control of relevant certification and consents from any outside parties involved in the recycling operation such as purchasers, contractors, importers, transporters, sorters, processors, storers, waste disposers, recyclers, traders and re users.

The facility shall establish and implement methods to communicate externally regarding pertinent safety and environmental aspects or decisions.

4.4.4 Documentation

The recycling facility management system documentation shall include

- a) the management policy, objectives and targets,
- b) the description of the scope of the management system,
- c) safe and environmental work practices for the recycling aspects,
- d) description of the main elements of the management system and their interaction, and reference to related documents,
- e) documents, including records, required by legislation or any subscribed requirement,
- f) documents, including records, required by this International Standard,
- g) all necessary licenses, notifications, consents and certificates, including authorisations and certificates of subcontractors, transporters, and external waste management organizations including other recyclers, re-users or disposers,
- h) other documents, including records, determined by the facility to be necessary to ensure effective planning, operation and control of processes that relate to safe and environmental recycling and identified aspects,
- i) procedure for notifying relevant stakeholders of the final and complete recycling of the ship.

4.4.5 Control of documents

Documents required by the management system, by this International Standard, and by relevant legal, statutory or regulatory requirements shall be controlled. Records are a special type of document and shall be controlled in accordance with the requirements of 4.5.4.

The facility shall establish, implement and maintain procedure(s) to

- a) approve documents for adequacy prior to issue,
- b) review and update as necessary and re-approve documents,
- c) ensure current versions of relevant documents, data and information including information for the safe and environmentally sound recycling of ships are available at all relevant locations, and that these essential documents, data, information and locations are properly identified,

- d) ensure that changes and current revision status of documents are identified and that obsolete documents data and information are promptly removed or otherwise assured against unintended use,
- e) ensure documents remain legible and readily identifiable,
- f) ensure that documents of external origin determined by the facility to be necessary for the planning and operation of the recycling management system are identified and their distribution controlled,
- g) properly archive documents, data and information such that it is retained as required for legal or knowledge preservation purposes or both. Specific timeframes should be identified, and
- h) ensure these documents, data and information are secure, and if in electronic form are adequately backed up and can be recovered.

4.4.6 Operational control

4.4.6.1 The facility shall identify those operations that are necessary for achieving

- a) its management policy, objectives and targets,
- b) proper control of its recycling aspects,
- c) proper planning and preparation, which shall include identification of hazards and materials onboard the ship and confirmation that the facility can handle the types and volumes,
- d) safe and environmentally sound recycling, including procedures, equipment, organization and resources for minimizing the risks of accidents or pollution,
- e) proper control of contractors and external organizations used for transport, recycling, re use or disposal of wastes and materials; and
- f) compliance with legal, statutory and other regulatory requirements.

4.4.6.2 The facility shall ensure these operations and activities are carried out under specified conditions by

- a) establishing, implementing and maintaining documented procedures to control situations where their absence could lead to failure to achieve the operations and activities listed in 4.4.6.1 a) to f),
- b) evaluating any requirements and controls required during the purchasing, import and acceptance of a ship for recycling to the facility,
- c) to effectively communicate with, instruct and verify the activities of contractors,
- d) stipulating the operating criteria in the procedure(s), and
- e) establishing, implementing and maintaining documented procedures related to the identified significant recycling aspects of goods and services used by the facility and communicating applicable procedures and requirements to suppliers including contractors and organizations responsible for transporting, storing, processing, re using, recycling, trading or disposing of wastes or materials from the facility.

4.4.6.3 The facility shall establish, implement and maintain procedures for controlling exposure to hazardous materials and any other recycling aspects that may cause specific health hazards. These controls are to be systematic and shall include the following elements:

- a) agreed reference levels for exposure to hazardous materials and other hazardous items;
- b) general assessment of exposure risks in the facility and risk assessment methodology;
- c) control procedures for the measurement, reduction, minimization, and/or elimination of exposure risks.

4.4.6.4 Procedures for operational control shall allow the basic workers rights, without prejudice or detriment to themselves,

- a) to bring to the attention of top management or their representatives or the competent authority any hazards or risks to safety, health or the environment,
- b) to appeal to the competent authority if they consider measures taken are inadequate, or considered not to comply with relevant legislation,
- c) to remove themselves from danger when they have reasonable justification to believe that there is an imminent and serious risk to their safety and health, and to allow such concerns to be immediately communicated to management representatives,
- d) to adequate medical treatment and compensation for occupational injuries and diseases, and
- e) to refrain from operating equipment or machinery, or entering into areas where they have not been properly trained or are not properly supervised by qualified staff.

4.4.7 Emergency preparedness and response

The facility shall establish, implement and maintain appropriate plans and procedures to identify potential emergency situations, potential accidents and possible pollution events and how it will respond to them so to prevent, reduce or mitigate the impact on safety, health and the environment.

The facility shall monitor relevant external information such as forecasts of extreme weather and inform relevant stakeholders accordingly.

The facility shall respond to actual emergency situations, accidents and pollution incidents and prevent, reduce or mitigate associated adverse effect on safety, health and the environment.

The facility shall periodically review, and where necessary revise its emergency preparedness and response procedures, in particular, after the occurrence of accidents, emergency situations or pollution incidents.

The facility shall periodically test these procedures where practicable.

The facility shall establish and maintain a survey of possible and actual injuries in order to identify required immediate first aid, health facilities, training and appropriate medical care provision.

4.5 Checking

4.5.1 Monitoring and measurement

The facility shall establish, implement and maintain procedures to monitor and measure, on a regular basis, the key characteristics of its operations. The procedure(s) shall include the documentation of information to monitor performance, applicable operational controls and conformity with the facility's objectives and targets.

The facility shall ensure that essential safety and environmental information, including that from contractors working in or for the facility is kept up to date and communicated to all persons.

4.5.2 Evaluation of compliance

4.5.2.1 Consistent with its commitment to compliance, the facility shall establish, implement and maintain a procedure(s) for periodically evaluating compliance with applicable legal requirements, legislation and regulations, health and safety, training industry best practices and conformance with its own policy and objectives.

The facility shall keep records of the results of the periodic evaluations.

4.5.2.2 The facility shall evaluate safety, environmental and other requirements to which it subscribes through periodic reviews, testing, post incident reports, lessons learned, performance evaluations, complaint procedures and exercises. Significant changes in these factors shall be reflected immediately in the procedure(s).

The organization shall keep records of the results of the periodic evaluations.

4.5.2.3 Compliance evaluation procedures shall enable workers and other interested parties to bring to the attention of top management risks to safety, health and the environment from any recycling aspects whether existing, potential or planned.

4.5.3 Nonconformity, corrective action and preventive action

The organization shall establish, implement and maintain procedures and define responsibility and authority for the following:

- a) evaluating and initiating preventive actions to identify potential failures of safe and environmentally sound recycling and waste management in order to minimize occurrence;
- b) the investigation of safety-, environment- and legal-related
 - 1) failures including false alarms,
 - 2) incidents and emergency situations, and
 - 3) non-conformances;
- c) taking action to mitigate any consequences and prevent reoccurrence from such failures, incidents or non-conformances;
- d) the initiation and completion of corrective actions;
- e) the confirmation of the effectiveness and reporting processes for corrective actions taken.

Any corrective or preventive action taken to eliminate the causes of actual and potential non-conformances shall be appropriate to the magnitude of the problem and commensurate with the risks likely to be encountered.

The organization shall implement and record any changes in the documented procedures resulting from corrective and preventive action and shall include the required training where necessary.

4.5.4 Control of records

The organization shall establish and maintain records as necessary to demonstrate conformity with the requirements of its recycling management system and of this International Standard, and the results achieved.

The organization shall establish, implement and maintain a procedure(s) for the identification, storage, protection, retrieval, retention and disposal of records.

Records shall be and remain legible, identifiable and traceable.

Electronic and digital documentation should be rendered tamper proof, securely backed-up and accessible only to authorized personal.

4.5.5 Internal audit

4.5.5.1 The facility shall ensure that internal audits of the recycling management system are conducted at planned intervals to

- a) determine whether the management system
 - 1) conforms to planned arrangements including the requirements of this International Standard and
 - 2) has been properly implemented and is maintained, and
- b) provide information on the results of audits to management.

4.5.5.2 Audit programme(s) shall be planned, established, implemented and maintained by the facility, taking into consideration the importance of the operation(s) concerned and the results of previous audits.

Audit procedure(s) shall be established, implemented and maintained that address

- a) the responsibilities and requirements for planning and conducting audits, reporting results and retaining associated records, and
- b) the determination of audit criteria, scope, frequency and methods.

Selection and training of auditors and conduct of audits shall ensure objectivity and the impartiality of the audit process.

4.6 Management review and continual improvement

Top management shall review the ship recycling management system, at planned intervals, to ensure its continuing suitability, adequacy and effectiveness. Reviews shall include assessing opportunities for improvement and the need for changes to the management system, including the management policy and management system objectives and targets. Records of the management reviews shall be retained.

Input to management reviews shall include

- a) results of audits and evaluations of compliance with legal requirements and with other requirements to which the organization subscribes,
- b) communication(s) from external interested parties, including complaints,
- c) the performance of the organization,
- d) the extent to which objectives and targets have been met,
- e) status of corrective and preventive actions,
- f) follow-up actions from previous management reviews,
- g) changing circumstances, including developments in legal and other requirements related to its recycling aspects, and
- h) recommendations for improvement.

The outputs from management reviews shall include any decisions and actions related to possible changes to management policy, objectives, targets and other elements of the management system, consistent with the commitment to continual improvement.

Annex A (informative)

Comparison of ISO 30000:2008 and the planned IMO International Convention of the safe and environmentally sound recycling of ships

IMO Convention	ISO 30000	Explanation
Article 1 General obligations	not applicable	unique to IMO
Article 2 Definitions		
Administration	not applicable	unique to IMO
Annex	not applicable	unique to IMO
committee	not applicable	unique to IMO
competent authority	not applicable	unique to IMO
convention	not applicable	unique to IMO
gross tonnage	not applicable	gross tonnage is not used in ISO 30000
hazardous material	broadly similar, IMO uses 'liable', ISO 'potential'	in line with accepted ISO standards
organization	not applicable	unique to IMO
secretary general	not applicable	unique to IMO
ship	broadly similar	ISO 30000 may be voluntarily used for IWW etc. no conflict
ship recycling	ISO includes upstream and downstream activities	ISO standards include all aspects an organization can control or influence.
ship recycling facility	essentially the same	no conflict
Article 3-21 relate to the legal requirements for an international convention	not applicable	The convention will be international law, ISO 30000 will be voluntary.
Annex		
Chapter 1 – General provisions		
Regulation 1 –Definitions		
competent person	not used	IMO definition would apply
employer	not used	IMO definition would apply
existing ship	not used	IMO definition would apply
gas free for hot works	not used	IMO definition would apply
new ship	not used	IMO definition would apply
ready for recycling	not used	IMO definition would apply
recycling company	not used	Standard ISO definition of 'organization' is used. No conflict.
shipowner	not used	IMO definition would apply
site inspection	not used	IMO definition would apply
statement of completion	not used	IMO definition would apply
worker	not used	IMO definition would apply

IMO Convention	ISO 30000	Explanation
Regulation 2 – General applicability	1 Scope	identical philosophies, one is standard IMO, the other standard ISO
Regulation 3 –Exceptions	no exceptions	ISO 30000 is voluntary, exceptions not required
Chapter 2 – Requirements for ships		
Part A Design, construction, operation and maintenance of ships		
Regulation 4 – Controls of ships hazardous materials	4.3.2 requires compliance with identified legal requirements	IMO requirements fully incorporated
Regulation 5 – Inventory of hazardous materials	4.3.2 requires compliance with identified legal requirements	IMO requirements fully incorporated
Regulation 6 – Procedures for Proposing amendments to Appendices 1 and 2	not relevant	ISO 30000 does not list hazardous materials – ISO 30000 relies on IMO.
Regulation 7 – Technical groups	not relevant	ISO 30000 does not develop hazardous materials – ISO 30000 relies on IMO.
Part B Preparation for ship recycling		
Regulation 8 – General requirements	4.3.2, legal requirements, 4.3.1 also requires all IMO requirements to be identified and implemented	no conflict
Regulation 9 – Ship recycling plan	4.3.2 legal requirements, 4.3.1 d)	fully implements IMO requirements
Regulation 10 – Ready for recycling	no text in IMO	
Part C – Surveys and certification		
Regulation 11 – Surveys	not needed	ISO 30000 does not apply to ship surveys
Regulation 12 – Issuance and endorsement of certificates	not needed	ISO 30000 does not apply to ship certification directly, however 4.3.2 would require such IMO certification
Regulation 13 – Issuance by another party	not needed	does not apply to management system of recycling facility
Regulation 14 – Form of certificates	not needed	IMO requirements apply
Regulation 15 –Duration and validity of certificates	not needed	IMO requirements apply
Chapter 3 – Requirements for ship recycling facilities		
Regulation 16 – Controls on ship recycling facilities	4.3.2 legal requirements apply	IMO requirements apply
Regulation 17 – Authorisation of ship recycling facilities	4.3.2 legal requirements apply	IMO requirements apply

IMO Convention	ISO 30000	Explanation
Regulation 18 – General requirements	ISO 30000 is a model for the management system	all aspects of these requirements are in the Draft Standard no conflict
1	4.2 a)	covers health, safety and the environment consistent with IMO
2,1	4.3.2	legal requirement - IMO applies
2,2	4.3.1	procedures to ensure IMO complied with
2,3	4.3.2	documents shall be available
2,4	4.4.4 i)	procedure replied to show compliance with IMO
Regulation 19 – Recycling facility management plan		
1	4.2	policy requirements identical to IMO in different words
2	4.2 e) and f)	fulfils IMO objectives
3	4.4.1	fulfils IMO objectives
4	4.4.2	fulfils IMO objectives
5	4.4.7	fulfils IMO objectives
6	4.5.1	fulfils IMO objectives
7	4.5.2	
Regulation 20 –Prevention of accidents	4.4.6	fulfils IMO objectives
Regulation 21 – Safe and environmentally sound removal and management of hazardous materials	4.4.6	fulfils IMO objectives
Regulation 22 –Emergency preparedness and response	4.4.7	essentially identical in different words
Regulation 23 – Worker safety and training	4.4.2 for training, 4.4.6 <i>inter alia</i> is safety	standard ensures procedures for all IMO requirements
Regulation 24 –Reporting on incidents and chronic effects	4,5	fulfils IMO objectives
Chapter 4 – Reporting requirements		
Regulation 25 – Initial notification and reporting requirements	4.3.1	fulfils IMO objectives
Regulation 26 – Reporting upon completion	4.4.4 i)	fulfils IMO objectives
Appendix 1 Controls of hazardous materials	not needed	IMO requirements apply
Appendix 2 Minimum list of items for the inventory of hazardous materials [(for new ships and new installations)]	not needed	IMO requirements apply
Appendix 3, 4 , 5	not needed	IMO requirements apply

Bibliography

- [1] ISO 9000:2005, *Quality management systems — Fundamentals and vocabulary*

