

ANNEX 1 TO STANDARDS

ADDITIONAL REQUIREMENTS FOR ISRA A MEMBERS

1.0 General

These requirements are to be followed as additional standards to ensure a minimum entry level into A membership of I.S.R.A. They are based on the existing IMO, ILO and BC Guidelines and the draft International Convention on Ship Recycling. All definitions and other terms in the text will be taken as referring to Guidelines and Convention.

Each member of I.S.R.A undertakes to give full and complete effect to these standards and to co-operate for the purpose of effective implementation, compliance and enforcement of these standards.

The members undertake to encourage the continued development of technologies and practices which will contribute to safe and environmentally sound ship recycling.

2.0 Requirements

2.1 Authorization of ship recycling facilities

Each I.S.R.A member shall ensure that ship recycling facilities that operate under its control, and are subject to these standards, are authorized and inspected by the competent Authority of its government in accordance with the existing IMO, ILO and BC Guidelines.

2.2 Exchange of information

For the ship recycling facilities of I.S.R.A members, I.S.R.A shall provide relevant information to the relevant bodies which request information. The information shall be exchanged in a swift and timely manner. No information shall be provided that is protected by its law without the consent of the involved I.S.R.A member.

2.3 Communication of information

I.S.R.A shall make available to other organizations and other international bodies the following information:

- .1 a list of member ship recycling facilities with relevant specifications
- .2 contact details for the competent authority responsible for ship recycling facilities of each I.S.R.A member.

2.4 Technical assistance and co-operation

I.S.R.A members shall undertake, directly or through I.S.R.A, in respect of the safe and environmentally sound recycling of ships, to provide support for those members which request technical assistance:

- .1 to train personnel;
- .2 to ensure the availability of relevant technology, equipment and facilities;
- .3 to initiate joint research and development programmes; and
- .4 to undertake other actions aimed at the effective implementation of I.S.R.A Standards.

I.S.R.A members undertake to co-operate actively, subject to their national laws, regulations and policies, in the transfer of management systems and technology in respect of the safe and environmentally sound recycling of ships.

2.5 Inventory of Hazardous Materials

I.S.R.A members must require an Inventory of Hazardous Materials from ships.

2.6 Ship Recycling Plan

A “ship specific” recycling plan shall be developed by the I.S.R.A members’ recycling facilities prior to any recycling of a ship can take place.

2.7 Prevention of accidents

Ship recycling facilities belonging to I.S.R.A members shall establish and utilize procedures to:

- .1 prevent explosions by establishing procedures for ensuring “gas-free-for-hot-work” conditions throughout the ship recycling process;
- .2 prevent other accidents causing, or with the potential to cause, damage to human health; and
- .3 prevent spills of cargo residues and other materials on the ships which may cause harm to human health and/or the environment, taking into account guidelines developed by international and national organizations (if not by ISRA).

2.8 Safe and environmentally sound removal and management of hazardous materials

I.S.R.A members’ ship recycling facilities shall ensure safe and environmentally sound removal of any hazardous material contained in a ship. The person(s) in charge of the recycling operations and the workers shall be familiar with the requirements relevant to their tasks and in particular actively use the Inventory of Hazardous Materials and the Ship Recycling Plan, prior to and during the removal of hazardous materials.

Ships shall be properly controlled in a contained environment throughout the operation such that contamination of the sea and land is avoided and can be easily controlled in any accident situation.

Ship recycling facilities shall ensure that all hazardous liquids, materials and sediments detailed in the inventory are labelled, packaged and removed by properly trained and equipped workers taking into account the guidelines developed by IMO, ILO and BC and in particular ensure that;

- .1 all hazardous liquids, residues and sediments are identified and removed to the maximum extent possible prior to cutting;
- .2 substances or objects containing heavy metals such as lead, mercury, cadmium and hexavalent chromium, are identified, labelled and removed to the maximum extent possible prior to cutting;
- .3 paints and coatings that are highly flammable and/or leads to toxic releases during cutting are identified, labelled and removed to the maximum extent possible prior to cutting;
- .4 any asbestos is identified, labelled and removed to the maximum extent possible prior to cutting by workers that are specially trained and equipped to do so;
- .5 PCB and materials containing PCBs materials are identified, labelled and removed to the maximum extent possible prior to cutting by workers that are specially trained and equipped to do so, and that heat inducing equipment is avoided during such operations;

- .6 CFCs and halons are identified, labelled and removed by workers that are specially trained to do so;
- .7 other wastes and hazardous materials not listed above and not being part of the ship structure, are identified labelled and removed to the maximum extent possible prior to cutting.
- .8 cutting and removal is done in a controlled manner, and materials to be removed are lifted from the ship and moved by suitable machinery.

I.S.R.A members' ship recycling facilities shall provide for and ensure safe and environmentally sound management of all hazardous materials and wastes removed from the ship recycled at that facility. Waste management, transport companies and disposal sites shall be identified, and materials disposed shall be labelled to provide for the further safe and environmentally sound handling of these materials. All downstream waste management facilities and transfer companies will be certified, licensed or authorised by the local authorities in compliance with the applicable national and international legislation.

All relevant documentary for all hazardous materials and down streams are being kept in the yard for reference and check.

All wastes generated from the recycling activity shall be kept separate from recyclable materials and equipment, stored in appropriate conditions and only transferred to a waste management facility authorised to deal with their proper treatment and disposal. Wastes of different categories shall not be mixed.

2.9 Emergency preparedness and response

I.S.R.A members' ship recycling facilities shall establish and maintain an emergency preparedness and response plan. The plan shall be made having regard to the location and environment of the ship recycling facility, and take into account the size and nature of activities associated with each ship recycling operation. The plan shall furthermore:

- .1 ensure that the necessary equipment and procedures to be followed in the case of an emergency are in place, and that drills are being held on a regular basis;
- .2 ensure that the necessary information, internal communication and co-ordination are provided to protect all people in the event of an emergency at the facility;
- .3 provide information to, and communication with, the relevant competent authority(ies), and the neighbourhood and emergency response services;
- .4 provide for first-aid and medical assistance, fire-fighting and evacuation of all people at the facility, including emergency vehicle access and access to the ship at all times, pollution prevention; and
- .5 provide for relevant information and training to all workers of the ship recycling facility, at all levels and according to their competence, including regular exercises in emergency prevention, preparedness and response procedures.

2.10 Worker safety and training

I.S.R.A members' ship recycling facilities shall provide for worker safety by:

- .1 ensuring the availability, maintenance and use of personal protective equipment and clothing needed for all ship recycling operations;

- .2 provide for training programmes enabling workers to safely undertake all operations the worker is tasked to do; and
- .3 ensuring that any worker at the facility has been provided with appropriate training prior to performing any ship recycling operation.

ISRA members' ship recycling facility shall specifically ensure the use and provide of the following personal protective equipment for the operations requiring such use:

- .1 head protection;
- .2 face and eye protection;
- .3 hand and foot protection;
- .4 respiratory protective equipment;
- .5 hearing protection;
- .6 protectors against radioactive contamination;
- .7 protection from falls;
- .8 appropriate clothing.
- .9 and all other equipment required.

I.S.R.A members' ship recycling facilities may co-operate in providing for training of workers. This training will:

- .1 cover all workers and members of the ship recycling facility;
- .2 be conducted by competent persons;
- .3 provide for initial and refresher training at appropriate intervals;
- .4 include participants' evaluation of their comprehension and retention of the training;
- .5 be reviewed periodically, and modified as necessary; and
- .6 be documented.

2.11 Reporting on incidents and chronic effects

I.S.R.A members' ship recycling facilities shall report to their countries competent authority(ies) any incident or chronic effects causing and with the potential of causing risks to workers safety, human health and the environment. Such incidents or effects may include but are not limited to injuries, diseases, ill health, discharges and emissions to the environment.

Reporting of incidents shall contain a description of the incident or chronic effect, the cause of the incident or effect, the response action taken, consequences and corrective actions to be taken.

3.0 Notification and Reporting requirements

3.1 Notification before Recycling

ISRA members shall ensure that the relevant authorities are notified of any relevant ships planned for recycling and shall ensure that the required notifications and reporting procedures are followed

3.1 Reporting upon completion

ISRA members shall ensure that on completion of recycling of the ship, the relevant authorities are properly informed.

*Adopted by 2nd general meeting of I.S.R.A in London
on March 31st 2008*