

Incorporation of ISO standards into Japanese Boat Safety Regulations

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*Safety Standards Division
Maritime Bureau*

Ministry of Land, Infrastructure and Transport

Incorporation of ISO standards into Japanese Boat Safety Regulations

Japan's efforts

ISO's action

1998

13 standards
(machinery matters, mainly)
were incorporated into
Japanese Boat Safety Regulations

2000

ISO standards
on construction,
stability etc.
were issued

2005

2006

Exercise for comparison between
ISO standards
and
Japanese Boat Safety Regulations



40 ISO standards (including FDIS) have been incorporated into Japanese Boat Safety Regulations

Comparison between ISO standards and Japanese Boat Safety Regulations

ISO standards

Construction scantlings

→ ISO12215

Stability

→ ISO12217 etc

Engine

→ ISO16147 etc

etc.



Comparison exercise

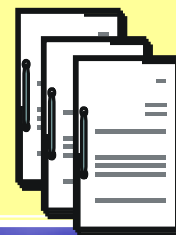


Japanese Boat Safety Regulations

Construction scantlings

Stability

Engine etc.



Detailed technical examination has resulted in the incorporation of a number of ISO standards into Japanese Boat Safety Regulations.

Benefits from the exercise

The number of ISO standards incorporated into Japanese Boat Safety Regulations increased from 13 to 40



Major elements of small craft (construction, stability and drainage equipments etc.) have been covered



- Increase options of design of boats
- Smooth import of boats



Machinery , mainly



Significant expansion of the coverage



List of ISO standards incorporated into Japanese Boat Safety Regulations (1)

- ISO10088(2001) Small craft – Permanently installed fuel systems and fixed fuel tanks**
- ISO11547(1994) Small craft – Start-in-gear protection**
- ISO13591(1997) Small craft – Portable fuel systems for outboard motors**
- ISO13592(1998) Small craft – Backfire flame control for petrol engines**
- ISO15584(2001) Small craft – Inboard petrol engines – Engine-mounted fuel and electrical components**
- ISO16147(2002) Small craft – Inboard diesel engines – Engine-mounted fuel and electrical components**
- ISO7840(2004) Small craft – Fire-resistant fuel hoses**
- ISO8469(2006) Small craft – Non-fire-resistant fuel hoses**
- ISO8846(1990) Small craft – Electrical devices – Protection against ignition of surrounding flammable gases**
- ISO9097(1991) Small craft – Electric fans**
- ISO9093-1(1994) Small craft – Seacocks and through-hull fittings – Part 1: Metallic**
- ISO9093-2(2002) Small craft – Seacocks and through-hull fittings – Part 2: Non-metallic**
- ISO21487(2006) Small craft – Permanently installed petrol and diesel fuel tanks**
- ISO11105(1997) Small craft – Ventilation of petrol engine and/or petrol tank compartments**
- ISO12215-1(2000) Small craft -Hull construction and scantlings**
 - Part 1: Materials: Thermosetting resins, glass-fibre reinforcement, reference laminate
- ISO12215-2(2002) Small craft - Hull construction and scantlings**
 - Part 2: Materials: Core materials for sandwich construction, embedded materials
- ISO12215-3(2002) Small Craft - Hull construction and scantlings**
 - Part 3: Materials: Steel, aluminium alloys, wood, other materials
- ISO12215-4(2002) Small craft - Hull construction and scantlings - Part 4: Workshop and manufacturing**
- ISO/FDIS12215-5 Small craft - Hull construction and scantling**
 - Part 5: Design pressures, design stresses, scantling determination
- ISO/FDIS12215-6 Small Craft - Hull construction and scantlings**
 - Part 6: Structural arrangements and details

List of ISO standards incorporated into Japanese Boat Safety Regulations (2)

- ISO12216(2002) Small craft – Windows, portlights, hatches, deadlights and doors
– Strength and watertightness requirements
- ISO11812(2001) Small craft – Watertight cockpits and quick-draining cockpits
- ISO11592(2001) Small craft less than 8 m length of hull – Determination of maximum propulsion power rating
- ISO12217-1(2002) Small craft – Stability and buoyancy assessment and categorization
– Part 1: Non-sailing boats of hull length greater than or equal to 6 m
- ISO12217-3(2002) Small craft – Stability and buoyancy assessment and categorization
– Part 3: Boats of hull length less than 6 m
- ISO9094-1(2003) Small craft – Fire protection – Part 1: Craft with a hull length of up to and including 15 m
- ISO9094-2(2002) Small craft – Fire protection – Part 2: Craft with a hull length of over 15 m
- ISO10239(2000) Small craft – Liquefied petroleum gas (LPG) systems
- ISO14946(2001) Small craft – Maximum load capacity
- ISO15085(2003) Small craft – Man-overboard prevention and recovery
- ISO10592(1994) Small craft – Hydraulic steering systems**
- ISO13929(2001) Small craft – Steering gear – General link systems
- ISO15652(2003) Small craft – Remote steering systems for inboard mini jet boats
- ISO8847(2004) Small craft – Steering gear – Cable and pulley systems**
- ISO8848(1990) Small craft – Remote steering systems**
- ISO9775(1990) Small craft – Remote steering systems for single outboard motors of 15 kW to 40 kW power**
- ISO10133(2000) Small craft – Electrical systems – Extra-low-voltage d.c. installations
- ISO13297(2000) Small craft – Electrical systems – Alternating current installations
- ISO8849(2003) Small craft – Electrically operated direct-current bilge pumps**
- ISO15083(2003) Small craft – Bilge-pumping systems

Note: ISO standards incorporated into Japanese Boat Safety Regulations in 1998 are in red.