Pursuant to Article 20 paragraph 4 of the Law on Products Safety (Official Gazette of the Republic of Macedonia No. 33/06 и 63/07), the Minister for Transport and Communications, hereby adopts a

RULEBOOK
ON THE ESSENTIAL REQUIREMENTS FOR THE MANUFACTURE, PLACING ON THE MARKET AND PUTTING INTO OPERATION OF RECREATIONAL CRAFTS (*)

I. General provisions

Article 1

This Rulebook shall prescribe the essential requirements for the manufacture, placing on the market and putting into operation of recreational crafts and components for installation relating to the design, construction, exhaust emissions and noise emissions, procedures and requirements for conformity assessment and marking, as well as the requirements that should be fulfilled by the bodies for conformity assessment.

Article 2

Certain terms used in this Rulebook shall have the following meaning:

- "recreational craft" shall be the craft of any type, regardless of the means of propulsion of hull length from 2,5 m to 24 m, measured according to the harmonised standard intended for sports and leisure purposes;

- "personal watercraft" shall be a craft less than 4 m in length which uses an internal combustion engine having a water jet pump as its primary source of propulsion and designed to be operated by a person or persons sitting, standing or kneeling on, rather than within the confines of, a hull;

- "propulsion engine" shall be any spark or compression ignition, internal combustion engine used for propulsion purposes, including two-stroke and four-stroke inboard, stern-drive with or without integral exhaust and outboard engines;

- "major engine modification" shall be the modification of an engine which:

a) could potentially cause the engine to exceed the emission limits set out in Annex I. B to this Rulebook, excluding routine replacement of engine components that do not alter the emission characteristics, or

b) increases the rated power of the engine by more than 15 %;

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* This Rulebook shall comply with Directive No. 94/25/EC of the European Parliament and of the Council of 16 June 1994 on the approximation of laws, regulations and administrative provisions of the Member States relating to recreational craft CELEX No 31994L0025 and Directive No. 2003/44/EC of the European Parliament and of the Council of 16 June 2003 amending Directive 94/25/EC on the approximation of the laws, regulations and administrative provisions of the Member States relating to recreational craft CELEX No 32003L0044.

- “major craft conversion” shall be a conversion of a craft which:

a) changes the means of propulsion of the craft,

b) involves a major engine modification, or

c) alters the craft to such an extent that it is considered a new recreational craft;

- “means of propulsion” shall be the mechanical method by which the craft is driven, in particular waterjet mechanical drive systems;

- “engine family” shall be the manufacturer's grouping of engines which, through their design, are expected to have similar exhaust emission characteristics and which comply with the exhaust emissions requirements provided in this Rulebook;

- „“manufacturer” shall be any natural or legal person who designs and manufactures a product covered by this Rulebook or who has such a product designed and/or manufactured with a view to placing it on the market on his own behalf;

- “authorised representative” shall be any natural or legal person who has received a written mandate from the manufacturer to act on his behalf with regard to the latter's obligation under this Rulebook.

Article 3

The provisions of this rulebook shall not apply to craft, including:

a) recreational craft intended solely for racing, including rowing racing boats and training rowing boats, marked as such by the manufacturer;

b) canoes and kayaks and vessels that move with the pedals;

c) sailing surfboards;

d) powered surfboards and boats for own personal use;

e) original historical craft and individual replicas thereof designed before 1950, built predominantly with the original materials and marked as such by the manufacturer;

f) experimental craft, provided that they are not subsequently placed on the market;

g) craft built for own use, provided that they are not subsequently placed on the market during a period of five years;

h) craft specifically intended to be crewed and to carry passengers for commercial purposes, contrary to the definition in Article 2, Indent 1 of this Rulebook;

i) submersibles;

j) crafts with sails;

k) air cushion vehicles, and

l) external combustion steam powered craft, fuelled by coal, coke, wood, oil or gas.

II. Essential requirements

Article 4

Recreational crafts shall meet the essential safety, health, environmental protection and consumer protection requirements, if they are in conformity with the requirements set out in Appendix 1 to this Rulebook.

Article 5

If the recreational crafts are manufactured in accordance with the standards, listed in the list of standards published by the Institute for Standardisation of the Republic of Macedonia (hereinafter referred to as: the Institute for Standardisation), it shall be deemed that those recreational crafts meet the essential requirements established with this rulebook, to which the harmonised standards apply.

Article 6

Recreational crafts shall be placed on the market or put into service, if they meet the essential requirements in view of their intended purpose and if they do not endanger the safety and health of persons, property or the environment when correctly constructed and maintained.

Article 7

The placing on the market and putting into operation shall not be prohibited or impeded for recreational vessels bearing the CE marking pursuant to Appendix 4 to this Rulebook, which proves their conformity including the conformity assessment procedures referred to in Article 9 and 10 to this Rulebook.

The placing on the market of partly-completed boats shall not be prohibited or impeded where the builder or his authorised representative or the person responsible for the placing on the market gives a written declaration, in accordance with Appendix 3(a) to this Rulebook, that they are to be completed by another person.

The placing on the market and putting into operation shall not be prohibited or impeded for the components referred to in Appendix 2 to this Rulebook bearing the CE marking pursuant to Appendix IV to this Rulebook which indicates their conformity with the relevant essential requirements where these components are accompanied with a written declaration of conformity in accordance with Appendix 15 of this Rulebook, when they are intended to be incorporated into recreational craft, in accordance with the written declaration, of Appendix 3(b) to this Rulebook, of the manufacturer, his authorised representative, or in the case of imports from a third country, of any person who places those components on the market.

The placing on the market and putting into operation shall not be prohibited or impeded for: mounted and propulsion engines without integral exhaust system, stern-drive; engines such as internal combustion engines that are built on a mobile machine that is not designed for road traffic and type of engines with compression ignition for use in vehicles and the emission of gaseous pollutants from motor with positive ignition supplied with natural gas or liquefied petroleum gas for use in vehicles where the manufacturer or his authorised representative pursuant to Appendix 15 item 3 to this Rulebook, declares that the engine will meet the requirements for exhaust emissions prescribed in this Rulebook when installed on a recreational craft or on craft for his own use, in accordance with the instructions given by the manufacturer.

Presentation of the recreational crafts at trade fairs, exhibitions, presentations, etc, shall not be prohibited and impeded, although they are not in accordance with the provisions of this Rulebook, provided that a visible sign clearly indicates that such products may not be marketed or put into service until compliance is provided with the provisions of this Rulebook.

Where the recreational crafts are subject to other regulations concerning other aspects and which also provide for the affixing of the CE marking, these regulations should indicate that the products comply with the provisions of those other regulations. The CE marking shall indicate the compliance with these regulations or with parts of them. In this case, the details of the respective regulations that the manufacturer has applied, as published in the Official Gazette of the Republic of Macedonia, should be given in the documents, the declaration of conformity or in the instructions required by those regulations and accompanying recreational crafts.

Article 8

When it is ascertained that the recreational crafts or their components referred to in Article 1 of this Rulebook are bearing the CE marking set out in Appendix 4 to this Rulebook and are correctly designed, constructed, installed, maintained and used in accordance with their intended purpose and may endanger the safety and health of persons, property or the environment, the competent authority for market supervision shall take all appropriate interim measures to withdraw them from the market or prohibit or restrict their being placed on the market or put into service.

The measures of paragraph 1 of this Article shall be taken where non-conformity is the result of:

a) failure to comply with the essential requirements of Article 4 of this Rulebook and

b) incorrect application of the standards of Article 5 of this Rulebook, in so far as it is claimed that those standards have been applied.

When any of the products referred to in Article 1 of this Rulebook bearing the CE marking is not aligned, appropriate measures shall be taken by the competent authority for market supervision which has authority over whomsoever affixed the CE marking;

III. Conformity assessment procedure

Article 9

Before placing on the market and/or putting into service of the products of Article 1 of this Rulebook, the manufacturer or the authorised representative shall apply the procedures provided for in item 1, 2, 3, 4, 5, 6 and 7 of this Article.

In the case of post-construction assessment of a craft, if neither the manufacturer nor his authorised representative fulfils the responsibilities for the product's conformity to this Rulebook, these can be assumed by any natural or legal person who places the product on the market, and/or puts it into service, under his own responsibility. In such a case, the person must lodge an application for a report with an authorised body. The person who places the product on the market and/or puts it into service must provide the authorised body with any available document and technical file referring to the first placing on the market of the product. The authorised body shall examine the individual product and carry out calculations and other assessment to ensure its equivalent conformity with the essential requirements of the Rulebook. In this case, the Builder's plate set out in Appendix 1 (2.2) to this Rulebook shall include the words (“Post-construction certificate”). The authorised body shall draw up a report of conformity concerning the assessment carried out and shall inform the person who places the product on the market and/or puts it into service of his obligations. That person shall draw up a declaration of conformity pursuant to Appendix 15 to this Rulebook and affix, or cause to be affixed, the CE mark accompanied by the distinguishing number of the authorised body on the product.

With regard to the design and construction of products referred to in Article 1 of this Rulebook, the manufacturer or his authorised representative shall apply the following procedures for design categories of vessels A, B, C and D pursuant to Part 1 of Appendix 1(A) to this Rulebook.

1. For categories A and B:

- for boats from 2,5 m to 12 m hull length: the internal production control plus tests (module Aa) pursuant to Appendix 6 to this Rulebook, or the EC type-examination (module B) pursuant to Appendix 7 to this Rulebook, supplemented by conformity to type (module C) of Appendix 8 to this Rulebook, or any of the following modules: B+D, or B+E, or B+F, or G or H;

- for boats from 12 m to 24 m hull length: the EC type-examination (module B) pursuant to Appendix 7 to this Rulebook, supplemented by conformity to type (module C) of Appendix 8 to this Rulebook, or any of the following modules: B+D, or B+E, or B+F, or G or H.

2. For category C:

a) for boats from 2,5 m to 12 m hull length:

- where the harmonised standards relating to item 3.2 and 3.3 of Appendix 1(A) to this Rulebook are complied with: the internal production control plus tests (module Aa) of Appendix 6 to this Rulebook, or the EC type-examination (module B) of Appendix 7 to this Rulebook, supplemented by conformity to type (module C) of Appendix 8 to this Rulebook, or any of the following modules: B+D, or B+E, or B+F,

or G, or H;

- where the harmonised standards relating to item 3.2 and 3.3 of Appendix 1(A) to this Rulebook are not complied with: the internal production control plus tests (module Aa) of Appendix 6 to this Rulebook, or the EC type-examination (module B) of Appendix 7 to this Rulebook, supplemented by conformity to type (module C) of Appendix 8 to this Rulebook, or any of the following modules: B+D, or B+E, or B+F, or G or H;

b) for boats from 12 m to 24 m hull length: the EC type-examination (module B) of Appendix 7 to this Rulebook, supplemented by conformity to type module C of Appendix 8 to this Rulebook, or any of the following modules: B+D, or B+E, or B+F, or G or H.

3. For category D:

for boats from 2,5 m to 12 m hull length: the internal production control plus tests (module Aa) of Appendix 6 to this Rulebook, or the EC type-examination (module B) of Appendix 7 to this Rulebook, supplemented by conformity to type (module C) of Appendix 8 to this Rulebook, or any of the following modules: B+D, or B+E, or B+F, or G or H.

4. For personal watercraft: the internal production control plus tests (module Aa) of Appendix 6 to this Rulebook, or the EC type-examination (module B) of Appendix 7 to this Rulebook, supplemented by conformity to type (module C) of Appendix 8 to this Rulebook, or any of the following modules: B+D, or B+E, or B+F, or G or H.

5. For components set out in Appendix 2 to this Rulebook: any of the following modules: B+C, or B+D, or B+F, or G or H.

6. With regard to exhaust emissions: for products of Article 1 of this Rulebook shall apply the EC type-examination (module B) of Appendix 7 to this Rulebook, supplemented by conformity to type (module C) of Appendix 8 to this Rulebook, or any of the following modules: B+D, or B+E, or B+F, or G or H.

7. With regard to noise emissions:

a) for products referred to in Article 1 of this Rulebook, the craft manufacturer or his authorised representative shall apply:

- where tests are conducted using the harmonised standard for noise measurement: either internal production control plus tests (module Aa) of Appendix 6 to this Rulebook, or individual verification (module G) of Appendix 11 to this Rulebook, or full quality assurance (module H) of Appendix 12 to this Rulebook.

- where the Froude number and power displacement ratio method is used for assessment: either the internal production control (module A) of Appendix 5 to this Rulebook, or the internal production control plus tests (module Aa) of Appendix 6 to this Rulebook, or individual verification (module G) of Appendix 12 to this Rulebook, or full quality assurance (module H) of Appendix 12 to this Rulebook.

- where reference craft data, established in accordance with item 7 a) indent 1 of this Article, is used for assessment: either the internal production control (module A) of Appendix 5 to this Rulebook, or the internal production control plus tests (module Aa) of Appendix 6 to this Rulebook, or individual verification (module G) of Appendix 11 to this Rulebook, or full quality assurance (module H) of Appendix 12 to this Rulebook.

b) for the products refereed to in Article 1 to this Rulebook, the craft manufacturer or his authorised representative shall apply: the internal production control plus tests (module Aa) of Appendix 6 to this Rulebook, or module G or H.

IV. Technical documentation

Article 10

The technical documentation of Appendix 13 to this Rulebook for the appropriate craft, must comprise all relevant data for conformity assessment in accordance with the essential requirements.

V. Conformity assessment bodies

Article 11

The authorised conformity assessment body despite the requirements set out in the Law on Products Safety should meet the criteria for authorisation of Appendix 14 to this Rulebook.

Article 12

The written declaration of conformity of Appendix 15 to this Rulebook must always accompany the recreational craft and must be included within the owner's manual.

Article 13

Recreational craft, personal watercraft and the components referred to in Appendix 2 to this Rulebook, which are regarded as meeting the essential requirements of Appendix 1 to this Rulebook must bear the CE marking of conformity when placed on the market.

Outboard engines and stern drive engines with integral exhaust which are regarded as meeting the essential requirements of Appendix 1 under B and C to this Rulebook must bear the CE marking of conformity when placed on the market.

The graphical form of CE marking of conformity is given in Appendix 4 to this Rulebook.

The CE marking of conformity must appear in a visible, legible and indelible form.

The CE marking shall be accompanied by the identification number of the body responsible for implementation of the conformity assessment procedures

referred to in Appendix 9, 10, 11, 12 and 16 to this Rulebook.

The affixing of markings or inscriptions on the recreational craft which are likely to mislead third parties with regard to the meaning and the form of the CE marking shall be prohibited. Any other markings may be affixed to the recreational craft, provided that the visibility, legibility and meaning of the CE marking for conformity is not thereby reduced.

If during the supervision has been established that the CE marking has been affixed wrongly, the manufacturer or his authorised representative should ensure that the marking complies with this Rulebook and this shall be applied to the entire quantity of the wrongly marked products.

Without prejudice to Article 7 of this Rulebook, if it is established that the CE marking has been affixed wrongly, the manufacturer or his authorised representative shall be obliged to correct that under the conditions laid down by the authority for market supervision. Where non-compliance continues, the authority for market supervision shall take all appropriate measures to restrict or prohibit the placing on the market of the recreational craft or to ensure that it is withdrawn from the market, in accordance with the procedure of Appendix 7 to this Rulebook.

Article 14

Appendixes 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 and 17 to this Rulebook shall be given as a supplement and shall be an integral part of this Rulebook.

VI. Transitional and final provisions

Article 15

The provision of Article 13 of this Rulebook shall be applied from the date of accession of the Republic of Macedonia in the European Union or after the entry into force of an appropriate protocol for assessment of conformity with the European Community and the appointment of an authorised conformity assessment body with regard to the execution of tasks concerning the procedures for assessment of conformity appointed by the European Commission for the production of a recreational craft.

Article 16

Until the Republic of Macedonia joins the European Union or until an appropriate protocol for assessment of conformity with the European Community enters into force, each recreational craft or components referred to in Appendix 2 to this Rulebook, which are imported and placed on the market in the Republic of Macedonia, should have a written declaration of compliance issued by the conformity assessment body in the Republic of Macedonia.

The declaration of compliance of paragraph 1 of this Article shall be issued on the basis of the EC written declaration of conformity by the manufacturer, a declaration of compliance to EC type examination, a declaration of compliance for an approved system for quality assurance, results from the conducted tests and analysis

of the degree of compliance with the essential requirements laid down by the provisions of this Rulebook.

If it is established that the recreational craft or the components referred to in Appendix 2 to this Rulebook, do not meet the requirements set out in this Rulebook, a written declaration of compliance shall not be issued by the conformity assessment body.

Manufacturers of recreational crafts or the components referred to in Appendix 2 to this Rulebook may place on the market recreational craft and the components referred to in Appendix 2 to this Rulebook without affixing the marking of conformity or the CE marking, if they are produced in the Republic of Macedonia and meet the essential requirements laid down in the provisions of this Rulebook.

Article 17

This Rulebook shall enter into force on the day following that of its publication in the Official Gazette of the Republic of Macedonia.

No. 01-16234/1
9 December 2010
Skopje

Minsiter,
Mile Janakieski

Appendix 1

Essential requirements

The term "craft" used in this Appendix, shall correspond to recreational craft and personal watercraft.

A. Essential safety requirements for the design and construction of recreational craft

1. Craft design categories

Design category	Wind force (Beaufort scale)	Significant wave height (H 1/3 metres)
A—"Ocean"	exceeding 8	exceeding 4
B —"Offshore"	up to, and including 8	up to, and including 4
C —"Inshore"	up to, and including 6	up to, and including 2
D —"Sheltered waters"	up to, and including 4	up to, and including 0,3

Definitions:

A: "Ocean" craft designed for extended voyages where conditions may exceed wind force 8 (Beaufort scale) and significant wave heights of 4 m and above but excluding abnormal conditions, and vessels largely self-sufficient;

B: "Ocean" craft intended for offshore voyages up to, and including, wind force 8 (Beaufort scale) and significant wave heights up to, and including, 4 m;

C: "inshore" craft intended for voyages in coastal waters, large bays, estuaries, lakes and rivers up to, and including, wind force 6 (Beaufort scale) and significant wave heights up to, and including, 2 m;

D:"Sheltered waters" craft designed for voyages on sheltered coastal waters, small bays, small lakes, rivers and canals when conditions up to, and including, wind force 4 (Beaufort scale) and significant wave heights up to, and including, 0,3 m may be experienced, with occasional waves of 0,5 m maximum height, for example from passing vessels;

Crafts in each Category must be designed and constructed to withstand these parameters in respect of stability, buoyancy, and other relevant essential requirements listed in Appendix I, and to have good handling characteristics.

2. General requirements

Recreational crafts shall comply with the essential requirements in so far as they apply to them.

2.1. Identification of crafts

Each craft shall be marked with an identification number including the following information:

- manufacturer's code;

- country of manufacture;

- unique serial number;

- year of production and

- model year.

The relevant harmonised standard gives details of these requirements.

2.2. Builder's plate

Each craft hull shall carry an affixed plate inscription of the manufacturer, separately from the identification number, containing the following information:

- manufacturer's name;

- CE marking pursuant to Appendix 4 to this Rulebook;

- craft category pursuant to item 1 of this Appendix;

- manufacturer's maximum recommended load, pursuant to subitem 3.6 of this Appendix, excluding the weight of the contents of repaired tanks when full;

- number of persons recommended by the manufacturer for which the craft was designed to carry when under way.

2.3. Protection from falling overboard and means of reboarding

Depending on the model category, craft shall be designed to minimise the risks of falling overboard and to facilitate reboarding.

2.4. Visibility from the main steering position

For motor crafts, the main steering position shall give the operator, under normal conditions of use (speed and load), good all-round visibility.

2.5. Owner’s manual

Each craft shall be provided with an owner's manual in Macedonian and English language. This manual should draw particular attention to risks of fire and flooding and shall contain the information listed in subitem 2.2, 3.6 and item 4 of this Appendix as well as the unladen weight of the craft in kilograms.

3. Integrity and structural requirements

3.1. Structure

The choice and combination of materials and its construction shall ensure that the craft is strong enough in all respects. Special attention shall be paid to the design category pursuant to item 1 of this Appendix, and the manufacturer's maximum recommended load pursuant to subitem 3.6 of this Appendix.

3.2. Stability and freeboard

The craft shall have sufficient stability and freeboard pursuant to design category of item 1 of this Appendix and the manufacturer's maximum recommended load pursuant to subitem 3,6 of this Appendix.

3.3. Buoyancy and flotation

The craft shall be constructed to ensure that it has buoyancy characteristics appropriate to its model category pursuant to item 1, and the manufacturer's maximum recommended load pursuant to subitem 3.6 of this Appendix. All habitable multihull craft shall be so designed as to have sufficient buoyancy to remain afloat in the inverted position.

Crafts of less than six metres in length that are susceptible to swamping when used according to their category, shall be provided with appropriate means of flotation in the swamped condition.

3.4. Openings in hull, deck and superstructure

Openings in hull, deck(s) and superstructure shall not impair the structural integrity of the craft or its weathertight integrity when closed.

Windows, portlights, doors and hatchcovers shall withstand the water pressure likely to be encountered in their specific position, as well as pointloads applied by the weight of persons moving on deck.

Through hull fittings designed to allow water passage into the hull or out of the hull, below the waterline corresponding to the manufacturer's maximum recommended load pursuant to subitem 3.6 of this Appendix, the craft shall be fitted with shutoff means which shall be readily accessible.

3.5. Flooding

All craft shall be designed so as to minimise the risk of sinking.

Particular attention should be paid where appropriate to:

- cockpits and wells, which should be self-draining or have other means of keeping water out of the craft interior;

- ventilation fittings, and

- removal of water by pumps or other means.

3.6. Manufacturer's maximum recommended load

The manufacturer's maximum recommended load (fuel, water, provisions, miscellaneous equipment and people (in kilograms)) for which the craft was designed, as marked on the builder's plate, shall be determined according to the model category pursuant to item 1 of this Appendix, stability and freeboard pursuant to item 3 subitem 3.2. of this Appendix and buoyancy and flotation pursuant to item 3 subitem 3.3 of this Appendix.

3.7. Liferaft stowage

All craft of categories A, B, C and D longer than six metres shall be provided with one or more stowage points for a liferaft (liferafts) large enough to hold the number of persons the craft was designed to carry as recommended by the manufacturer. This (these) stowage point(s) shall be readily accessible at all times.

3.8. Escape

All habitable multihull craft over 12 metres long shall be provided with viable means of escape in the event of inversion.

All habitable craft shall be provided with viable means of escape in the event of fire.

3.9. Anchoring, mooring and towing

All craft, taking into account their model category and their characteristics shall be fitted with one or more strong points or other means capable of safely accepting anchoring, mooring and towing loads.

4. Handling characteristics

The manufacturer shall ensure that the handling characteristics of the craft are satisfactory with the most powerful engine for which the craft is designed and constructed. For all recreational marine engines, the maximum rated engine power shall be declared in the owner's manual in accordance with the harmonised standard.

5. Installation requirements

5.1. Engines and engine spaces

5.1.1. Inboard engine

All inboard mounted engines shall be placed within an enclosure separated from living quarters and installed so as to minimise the risk of fires or spread of fires as well as hazards from toxic fumes, heat, noise or vibrations in the living quarters.

Engine parts and accessories that require frequent inspection and/or servicing shall be readily accessible.

The insulating materials inside engine spaces shall be non-combustible.

5.1.2. Ventilation

The engine compartment shall be ventilated. The dangerous ingress of water into the engine compartment through all inlets must be prevented.

5.1.3. Exposed parts

Unless the engine is protected by a cover or its own enclosure, exposed moving or hot parts of the engine that could cause personal injury shall be effectively shielded.

5.1.4. Outboard engines starting

All crafts with outboard engines shall have a device to prevent starting the engine in gear, except:

(a) when the engine produces less than 500 newtons (N) of static thrust;

(b) when the engine has a throttle limiting device to limit thrust to 500 N at the time of starting the engine.

5.1.5. Personal watercraft running without driver

Personal watercraft shall be designed either with an automatic engine cut-off or with an automatic device to provide reduced speed, circular, forward movement when the driver dismounts deliberately or falls overboard.

5.2.1. Fuel

The filling, storage, venting and fuel-supply arrangements and installations shall be designed and installed so as to minimise the risk of fire and explosion.

5.2.2. Fuel tanks

Fuel tanks, lines and hoses shall be secured and separated or protected from any source of significant heat. The material the tanks are made of and their method of construction shall be according to their capacity and the type of fuel. All tank spaces shall be ventilated.

Petrol fuel shall be kept in tanks which do not form part of the hull and are:

(a) insulated from the engine compartment and from all other source of ignition and

(b) separated from living quarters.

Diesel fuel by way of derogation from the previous paragraph may be kept in tanks that are an integral part of the hull.

5.3. Electrical systems

Electrical systems shall be designed and installed so as to ensure proper operation of the craft under normal conditions of use and shall be such as to minimise risk of fire and electric shock.

Attention shall be paid to the provision of overload and short-circuit protection

of all circuits, except engine starting circuits, supplied from batteries.

Ventilation shall be provided to prevent the accumulation of gases which might be emitted from batteries. Batteries shall be firmly secured and protected from ingress of water.

5.4. Steering system

5.4.1. General

Steering systems shall be designed, constructed and installed in order to allow the transmission of steering loads under foreseeable operating conditions.

5.4.2. Emergency arrangements

Sailboat and single-engined inboard powered motor boats with remote-controlled rudder steering systems shall be provided with emergency means of steering the craft at reduced speed.

5.5. Gas system

Gas systems for domestic use shall be of the vapour-withdrawal type and shall be designed and installed so as to avoid leaks and the risk of explosion and be capable of being tested for leaks. Materials and components shall be suitable for the specific gas used to withstand the stresses and exposures found in the marine environment.

Each appliance shall be equipped with a flame failure device effective on all burners. Each gas-consuming appliance must be supplied by a separate branch of the distribution system, and each appliance must be controlled by a separate closing device. Adequate ventilation must be provided to prevent hazards from leaks and products of combustion.

All craft with a permanently installed gas system shall be fitted with an enclosure to contain all gas cylinders. The enclosure shall be separated from the living quarters, accessible only from the outside and ventilated to the outside so that any escaping gas drains overboard. Any permanent gas system shall be tested after installation.

5.6. Fire protection

5.6.1. General

The type of equipment installed and the layout of the craft shall take account of the risk and spread of fire. Special attention shall be paid to the surroundings of open flame devices, hot areas or engines and auxiliary machines, oil and fuel overflows, uncovered oil and fuel pipes and avoiding electrical wiring above hot areas of machines.

5.6.2. Fire-fighting equipment

Craft shall be supplied with fire-fighting equipment appropriate to the fire hazard or the position and capacity of fire-fighting equipment appropriate to the fire

hazard shall be indicated. The craft can not be put into service until the appropriate fire-fighting equipment is in place. Petrol engine enclosures shall be protected by a fire extinguishing system that avoids the need to open the enclosure in the event of fire. Where fitted, portable fire extinguishers shall be readily accessible and one shall be so positioned that it can easily be reached from the main steering position of the craft.

5.7. Navigation lights

Where navigation lights are fitted, they shall comply with the 1972 Colreg or CEVNI regulations.

5.8. Discharge prevention and installations facilitating the delivery ashore of waste

Craft shall be constructed so as to prevent the accidental discharge of pollutants (oil, fuel, etc.) overboard.

Craft fitted with toilets shall have either:

a) holding tanks, or

b) provision to fit holding tanks.

Craft with permanently installed holding tanks shall be fitted with a standard discharge connection to enable pipes of reception facilities to be connected with the craft discharge pipeline.

Any through-the-hull pipes for human waste shall be fitted with valves which are capable of being secured in the closed position.

B. Essential requirements for exhaust emissions from propulsion engines

Propulsion engines shall comply with the following essential requirements for exhaust emissions.

1. Engine identification

1.1. Each engine shall be clearly marked with the following information:

- engine manufacturer's trademark or trade-name,

- engine type, engine family, if applicable,

- a unique engine identification number,

- CE marking, if it is set out pursuant to the provisions of this rulebook.

1.2. The marks of Part B subitem 1.1. of this Appendix must be durable for the normal life of the engine. The marks must be clearly legible and indelible. If labels or plates are used, they must be attached in such a manner that the fixing is durable for the normal life of the engine, and the labels/plates cannot be removed without destroying or defacing them.

1.3. The marks must be secured to an engine part necessary for normal engine operation and not normally requiring replacement during the engine life.

1.4. The marks must be located so as to be readily visible to the average person after the engine has been assembled with all the components necessary for engine operation.

2. Exhaust emission requirements

Propulsion engines shall be designed, constructed and assembled so that when correctly installed and in normal use, emissions shall not exceed the limit values obtained from the following table.

Table 1

Type	Carbon monoxide $CO = A + B/P^n_N$			Hydrocarbons $HC = A + B/P^n_N$			Nidrogen oxides NO_x	Particulates PT
	A	B	n	A	B	n		
Two-stroke spark ignition	150,0	600,0	1.0	30.0	100,0	0,75	10,0	Not applicable
Four-stroke spark ignition	150,0	600,0	1.0	6.0	50,0	0,75	15.0	Not applicable
Compression ignition	5,0	0	0	1,5	2,0	0,5	9.8	1.0

Where A, B and n are constants in accordance with the table, PN is the rated engine power in kW and the exhaust emissions are measured in accordance with the harmonised standard.

For engines above 130 kW either E3 (IMO) or E5 (recreational marine) duty cycles may be used.

The reference fuels to be used for the emissions test for engines fuelled with petrol and diesel shall be as specified in Directive 98/69/EC (Annex IX, Tables 1 and 2), and for those engines fuelled with Liquefied Petroleum Gas as specified in Directive 98/77/EC.

3. Durability

The manufacturer of the engine shall supply engine installation and maintenance instructions, which if applied should mean that the engine in normal use will continue to comply with the prescribed limits of Table 1 throughout the normal

life of the engine and under normal conditions of use.

This information shall be obtained by the engine manufacturer by use of prior endurance testing, based on normal operating cycles, and by calculation of component fatigue so that the necessary maintenance instructions may be prepared by the manufacturer and issued with all new engines when first placed on the market.

The normal life of the engine is considered to mean:

a) inboard or stern drive engines with or without integral exhaust: 480 hours or 10 years;

b) personal watercraft engines: 350 hours or five years;

c) outboard engines: 350 hours or 10 year.

4. Owner’s manual

Each engine shall be provided with an owner's manual in Macedonian and English language. This manual shall:

a) provide instructions for the installation and maintenance needed to assure the proper functioning of the engine in order to meet the requirements of Part B item 3 subitem 3 of this Appendix;

b) specify the power of the engine when measured in accordance with the harmonised standard.

B. Essential requirements for noise emissions

Recreational craft with inboard or stern drive engines without integral exhaust, personal watercraft and outboard engines and stern drive engines with integral exhaust shall comply with the following essential requirements for noise emissions:

1. Noise emission levels

1.1. Recreational craft with inboard or stern drive engines without integral exhaust, personal watercraft and outboard engines and stern drive engines with integral exhaust shall be designed, constructed and assembled so that noise emission measured in accordance with the harmonised standard* does not exceed the limit values in the following table:

Table 2

Single engine power in kW	Maximum Sound Pressure Level = LpAS max
Pn ≤ 10	67
10<PN ≤ 40	72

*

Pn > 40	75

where PN = rated engine power in kW at rated speed and LpASmax = maximum sound pressure level in dB.

For twin-engine and multiple-engine units of all engine types an allowance of 3 dB may be applied.

1.2. As an alternative to sound measurement tests, recreational craft with inboard engine configuration or stern drive engine configuration, without integral exhaust, shall be deemed to comply with the noise requirements referred to in Table 2 if they have a Froude number of ≤ 1.1 and a power displacement ratio of ≤ 40 and where the engine and exhaust system are installed in accordance with the engine manufacturer's specifications.

1.3. "Froude number" shall be calculated by dividing the maximum boat speed V (m/s) by the square root of the waterline length lwl (m) multiplied by a given gravitational constant, (g = 9,8 m/s2).

$$Fn = \frac{V}{\sqrt{(g.Lwl)}}$$

"Power displacement ratio" shall be calculated by dividing the engine power P (kW) by the boat's displacement $D\,(t) = \frac{P}{D}$

1.4. As a further alternative to sound measurement tests, recreational craft with inboard or stern drive engine configurations without integral exhaust, shall be deemed to comply with these noise requirements set out in this Appendix if their key design parameters are the same as or compatible with those of a certified reference boat to tolerances specified in the harmonised standard.

1.5. "Certified reference boat" shall mean a specific combination of hull/inboard engine or stern drive engine without integral exhaust that has been found to comply with the noise emission requirements, when measured pursuant to Part B item 1.1 of this Appendix, and for which all appropriate key design parameters and sound level measurements have been included subsequently in the published list of certified reference crafts.

2. Owner’s manual

For recreational craft with inboard engine or stern drive engines with or without integral exhaust and personal watercraft, the owner's manual required under Part A item 2 subitem 2.5 of this Appendix, shall include information necessary to maintain the craft and exhaust system in a condition that, insofar as is practicable, will ensure compliance with the specified noise limit values when in normal use.

For outboard engines, the owner's manual required under Part B item 4 of this Appendix shall provide instructions necessary to maintain the outboard engine in a

condition, that insofar as is practicable, will ensure compliance with the specified noise limit values when in normal use.

Appendix 2

Components

1. Ignition-protected equipment for inboard and stern drive engines;

2. Start-in-gear protection devices for outboard engines;

3. Steering wheels, steering mechanisms and cable assemblies.

4. Fuel tanks intended for fixed installations and fuel hoses;

5. Prefabricated hatches and portlights.

Appendix 3

Declaration by the builder or his authorised representative or the person responsible for placing on the market

(Article 7 paragraph 2 and 3)

a) The declaration by the builder or his authorised representative referred to in Article 7 paragraph 2 of this Rulebook (partly completed craft) shall contain the following:

- the name and address of the builder;

- the name and address of the representative of the builder or, of the person responsible for the placing on the market;

- a description of the partly completed craft;

- a statement that the partly completed craft is intended to be completed by others and that it complies with the essential requirements that apply at this stage of construction.

b) The declaration by the builder, his authorised representative or the person responsible for placing on the market referred to in Article 7 paragraph 3 of this Rulebook (components) shall contain the following:

- the name and address of the builder;

- the name and address of the representative of the builder or, of the person responsible for the placing on the market;

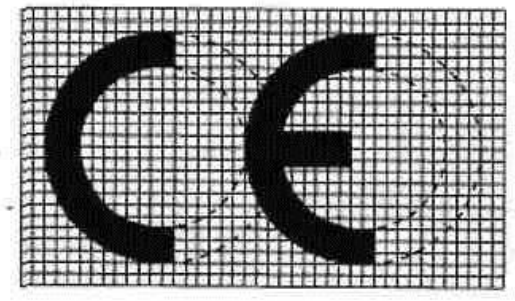
- a description of the component;

- a statement that the component complies with the relevant essential requirements.

Appendix 4

“ CE “ marking

The CE marking shall consist of the initials "CE" taking the following form:



The CE marking must have the same vertical dimension and may not be smaller than 5 mm. If the CE marking is reduced or enlarged, the proportions given in the above drawing must be respected.

The CE marking is followed by the identification number of the authorised body, if it intervenes in the control of production.

Appendix 5

Internal production control

(module A)

1. The manufacturer or his authorised representative, who carries out the obligations laid down in item 2, ensures and declares that the products concerned satisfy the requirements of this Rulebook that apply to them. The manufacturer or his authorised representative shall affix the CE marking to each product and draw up a written declaration of conformity.

2. The manufacturer shall establish the technical documentation described in item 3 of this Rulebook and he or his authorised representative or representative or the person responsible for the placing on the market shall keep it for a period ending at least 10 years after the last product has been manufactured at the disposal of the relevant national authorities for inspection purposes.

3. Technical documentation shall enable the conformity of the products with the requirements of this Rulebook to be assessed. It shall, as far as relevant for such assessment, cover the design, manufacture and operation of the product pursuant to Appendix 13 to this Rulebook.

4. The manufacturer or his authorised representative shall keep a copy of the declaration of conformity with the technical documentation.

5. The manufacturer shall take all measures necessary in order that the manufacturing process shall ensure compliance of the manufactured products with the technical documentation of item 2 and with the requirements of this Rulebook that apply to them.

Internal production control plus tests

(Module Aa, option 1)

This module consists of module A, set out in Appendix 5 to this Rulebook, plus the following supplementary requirements:

A. Design and construction

On one or several crafts representing the production of the manufacturer one or more of the following tests, equivalent calculation or control shall be carried out by the manufacturer or on his behalf:

(a) test of stability according to Part A item 3 subitem 3.2 of the Essential Requirements pursuant to Appendix 1 under A to this Rulebook;

b) test of buoyancy characteristics according to Part A item 3 subitem 3.3 of the Essential Requirements pursuant to Appendix 1 under A to this Rulebook.

Provisions common to both variations:

The tests or calculations or control from the preceding paragraph shall be carried out under the responsibility of an authorised body chosen by the manufacturer.

B. Noise emissions

For recreational craft fitted with inboard or stern drive engines without integral exhaust and for personal watercraft, the sound emission tests defined in Appendix 1 Part B to this Rulebook, on one or several crafts shall be carried out by the craft manufacturer, or on his behalf, under the responsibility of an authorised body chosen by the manufacturer.

For outboard engines and stern drive engines with integral exhaust on one or several crafts representing the production of the craft manufacturer, the sound emission tests defined in Appendix 1 Part B to this Rulebook shall be carried out by the craft manufacturer, or on his behalf, under the responsibility of an authorised body chosen by the manufacturer.

Where more than one engine of an engine family is tested, the statistical method set out in Appendix 17 shall be applied to ensure conformity of the sample.

Appendix 7

EC type-examination

(module B)

1. An authorised conformity assessment body ascertains and attests that a specimen, representative of the production envisaged, meets the provisions of the Rulebook that apply to it.

2. The application for the EC type-examination shall be lodged by the manufacturer or his authorised representative with an authorised conformity assessment body of his choice.

The application shall include:

- the name and address of the manufacturer and, if the application is lodged by the authorised representative, his name and address in addition;

- a written declaration that the same application has not been lodged with any other authorised body and

- the technical documentation, as described in item 3 of this Appendix.

The applicant of the application shall place at the disposal of the authorised conformity assessment body a specimen, representative of the production envisaged and hereinafter called „type".

The authorised conformity assessment body may request further specimens if needed for carrying out the test programme.

3. The technical documentation shall enable the conformity of the product with the requirements to be assessed. It shall, as far as relevant for such assessment, cover the design, manufacture and functioning of the product pursuant to Appendix 13 to this Rulebook.

4. The authorised conformity assessment body shall:

4.1. examine the technical documentation, verify that the type has been manufactured in conformity with the technical documentation and identify the elements which have been designed in accordance with the relevant provisions of the standards of item 5 of this Appendix, as well as the components which have been designed without applying the relevant provisions of those standards;

4.2. perform or have performed the appropriate examinations and necessary tests to check whether, where the standards of item 5 of this Appendix have not been applied, the solutions adopted by the manufacturer meet the Essential Requirements;

4.3. perform or have performed the appropriate examinations and necessary tests to check whether, where the manufacturer has chosen to apply the relevant standards, these have actually been applied;

4.4. agree with the applicant of the application the location where the examinations and necessary tests shall be carried out.

5. Where the type meets the provisions of the Rulebook, the authorised conformity assessment body shall issue an EC type-examination certificate to the applicant of the application. The certificate shall contain the name and address of the manufacturer, conclusions of the examination, conditions for its validity and the necessary data for identification of the approved type.

A list of the relevant parts of the technical documentation shall be annexed to the certificate and a copy kept by the authorised conformity assessment body.

If the issuing of the certificate is denied, the authorised conformity assessment body shall provide detailed reasons for such denial.

6. The applicant of the application shall inform the authorised conformity assessment body that holds the technical documentation concerning the EC type-examination certificate of all changes to the approved product which must receive additional approval where such changes may affect the conformity with the product. This additional approval is given in the form of an addition to the original EC type-examination certificate.

7. Each authorised conformity assessment body shall communicate to the other authorised bodies the relevant information concerning the EC type-examination certificates and additions issued and withdrawn.

8. The other authorised conformity assessment bodies may receive copies of the EC type-examination certificates and/or their additions. The annexes to the certificates shall be kept at the disposal of the other authorised bodies for conformity assessment.

9. The manufacturer or his authorised representative or the person responsible for placing on the market shall keep with the technical documentation copies of EC type-examination certificates and their additions for a period ending at least 10 years after the last product has been manufactured.

(*) A type may cover several versions of the product provided that the differences between the versions do not affect the level of safety and the other requirements concerning the performance of the product.

Conformity to type

(module C)

1. The manufacturer or his authorised representative ensures and declares that the products concerned are in conformity with the type as described in the EC type-examination certificate and meet the requirements that apply to them. The manufacturer shall affix the CE marking to each product pursuant to Appendix 4 to this Rulebook and draw up a written declaration of conformity pursuant to Appendix 15 to this Rulebook.

2. The manufacturer shall take all measures necessary to ensure that the manufacturing process assures compliance of the manufactured products with the type as described in the examination certificate and with the requirements that apply to them.

3. The manufacturer or his authorised representative or the person responsible for placing on the market shall keep a copy of the declaration of conformity for a period ending at least 10 years after the last product has been manufactured pursuant to Appendix 13 to this Rulebook.

4. With regard to the assessment of conformity with the exhaust emission requirements and if the manufacturer is not working under a relevant quality system of Appendix 12, an authorised body chosen by the manufacturer may carry out or have carried out product checks at random intervals. When the quality level appears unsatisfactory or when it seems necessary to verify the validity of the data presented by the manufacturer, the following procedure shall be used:

An engine is taken from the series and subjected to the test of Appendix 1 Part B to this Rulebook. Test engines should be run in, partially or completely, according to the manufacturer's specifications. If the specific exhaust emissions of the engine taken from the series exceed the limit values of Appendix 1 Part B to this Rulebook, the manufacturer may ask for measurements to be done on a sample of engines taken from the series and including the engine originally taken. To ensure the conformity of the sample of engines of item 4 of this Rulebook, the statistical method of Appendix 17 to this Rulebook shall be applied.

Appendix 9

Production quality assurance

(module D)

1. The manufacturer who satisfies the obligations of item 2 of this Rulebook ensures and declares that the products concerned are in conformity with the type as described in the EC type-examination certificate and satisfy the requirements that apply to them. The manufacturer or his authorised representative shall affix the CE marking to each product and draw up a written declaration of conformity pursuant to Appendix 15 to this Rulebook. The CE marking shall be accompanied by the identification number of the authorised body responsible for the monitoring pursuant to item 4 of this Appendix.

2. The manufacturer shall operate an approved quality system for production, final product inspection and testing pursuant to item 3 of this Rulebook and shall be subject to monitoring pursuant to item 4 of this Rulebook.

3. Quality system

The manufacturer shall lodge an application for assessment of his quality system with an authorised conformity assessment body of his choice, for the products concerned.

3.1. The application shall include:

- relevant information for the product category envisaged;

- the documentation concerning the quality system;

- where appropriate, the technical documentation of the approved type pursuant to Appendix 13 to this Rulebook and a copy of the EC type-examination certificate.

3.2. The quality system shall ensure compliance of the products with the type as described in the EC type-examination certificate and with the requirements that apply to them.

All the elements and requirements adopted by the manufacturer shall be documented in a systematic and orderly manner in the form of written policies, procedures and instructions. The quality system documentation must permit a consistent interpretation of the quality programmes, plan, manuals and records.

It shall contain in particular an adequate description of:

- the quality objectives and the organisational structure, responsibilities and powers of the management with regard to product quality;

- the manufacturing, quality control and quality assurance techniques, processes and systematic actions that will be used;

- the examinations and tests that will be carried out before, during and after manufacture, and the frequency with which they will be carried out;

- the quality records, such as inspection reports and test data, calibration data, qualification reports of the personnel concerned, etc.,

- the means to monitor the achievement of the required product quality and the effective operation of the quality system.

3.3. The authorised conformity assessment body shall assess the quality system to determine whether it satisfies the requirements of item 3.2. of this Appendix. It shall presume conformity with these requirements in respect of quality systems that implement the relevant harmonised standard.

The auditing team shall have at least one member with experience of evaluation in the product technology concerned. The evaluation procedure shall include an inspection visit to the manufacturer's premises.

The decision shall be notified to the manufacturer. The notification shall contain the conclusions of the examination and the reasoned assessment decision.

3.4. The manufacturer shall undertake to fulfil the obligations arising out of the quality system as approved and to uphold it so that it remains adequate and efficient.

The manufacturer or his authorised representative shall keep the authorised conformity assessment body that has approved the quality system informed of any intended updating of the quality system.

The authorised conformity assessment body shall evaluate the modifications proposed and decide whether the amended quality system will still satisfy the requirements of item 3.2. of this Appendix or whether a reassessment is required.

It shall notify its decisions to the manufacturer. The notification shall contain the conclusions of the examination and the reasoned assessment decision.

4. Surveillance under the responsibility of the authorised conformity assessment body

4.1. The purpose of surveillance is to make sure that the manufacturer duly fulfils the obligations arising out of the approved quality system.

4.2. The manufacturer shall allow the authorised conformity assessment body entrance for inspection purposes to the locations of manufacture, inspection and testing, and storage and shall provide it with all necessary information, in particular:

- the quality system’s documentation;

- the quality records, such as inspection reports and test data, calibration data, qualification reports of the personnel concerned, etc.

4.3. The authorised conformity assessment body shall periodically carry out audits to make sure that the manufacturer maintains and applies the quality system and shall provide an audit report to the manufacturer.

4.4. The authorised conformity assessment body may pay unexpected visits to the manufacturer. During such visits the authorised conformity assessment body may

carry out, or cause to be carried out, tests to verify that the quality system is functioning correctly. The authorised body for conformity assessment shall provide the manufacturer with a visit report and, if a test has taken place, with a test report.

5. The manufacturer shall, for a period ending at least 10 years after the last product has been manufactured, keep at the disposal of the national state authorities.

- the documentation of indent 2 item 3.1 of this Appendix;

- the updating of a paragraph of item 3.4 of this Appendix and

- the decision and reports from the authorised conformity assessment body of paragraph 3 of item 3.4, item 4.3 and item 4.4 of this Appendix.

6. Each authorised conformity assessment body shall give the other authorised bodies the relevant information concerning the quality system approvals issued and withdrawn.

Product verification

(module F)

1. This module prescribes the procedure whereby a manufacturer or his authorised representative checks and attests that the products subject to the provisions of item 3 of this Appendix are in conformity with the type as described in the EC type-examination certificate and satisfy the requirements that apply to them.

2. The manufacturer shall take all measures necessary in order that the manufacturing process ensures conformity of the products with the type as described in the EC type-examination certificate and with the requirements set out by the Rulebook that apply to them. The manufacturer or his authorised shall affix the CE marking to each product and shall draw up a declaration of conformity pursuant to Appendix 15 to this Rulebook.

3. The authorised conformity assessment body shall carry out the appropriate examinations and tests in order to check the conformity of the product with the essential requirements either by examination and testing of every product pursuant to item 4 of this Appendix or by examination and testing of products on a statistical basis, pursuant to item 5 of this Appendix, at the choice of the manufacturer.

The manufacturer or his authorised representative shall keep a copy of the declaration of conformity for a period ending at least 10 years after the last product has been manufactured.

4. Verification by examination and testing of every product

4.1. All products shall be individually examined and appropriate tests as set out in the relevant standard(s) of Article 5 of the Rulebook or equivalent tests shall be carried out in order to verify their conformity with the type as described in the EC type-examination certificate and the essential requirements that apply to them.

4.2. The authorised conformity assessment body shall affix, or cause to be affixed, its identification number to each approved product and draw up a written certificate of conformity relating to the tests carried out.

4.3. The manufacturer or his authorised representative shall ensure that he is able to supply the authorised body's certificates of conformity assessment on request.

5. Statistical verification

5.1. The manufacturer shall present his products in the form of homogeneous lots and shall take all measures necessary in order that the manufacturing process ensures the homogeneity of each lot produced.

5.2. All products shall be available for verification in the form of homogeneous lots. A random sample shall be drawn from each lot. Products in a sample shall be individually examined and appropriate tests as set out in the relevant standards of

Article 5, or equivalent tests, shall be carried out to ensure their conformity with the requirements of the Rulebook which apply to them and to determine whether the lot is accepted or rejected.

5.3. For the assessment of compliance with the requirements for exhaust emission, the procedure of Appendix 17 to this Rulebook shall be applied.

5.4. In the case of accepted lots, the authorised conformity assessment body shall affix, or cause to be affixed, its identification number to each product and shall draw up a written certificate of conformity relating to the tests carried out. All products in the lot may be put on the market except those products from the sample which were found not to be in conformity.

If a lot is rejected, the authorised conformity assessment body or the competent authority responsible for the surveillance of the market shall take appropriate measures to prevent the putting on the market of that lot. In the event of frequent rejection of lots the authorised body for conformity assessment may suspend the statistical verification.

The manufacturer may, under the responsibility of the authorised conformity assessment body, affix the latter's identification number during the manufacturing process.

5.5. The manufacturer or his authorised representative shall ensure that he is able to supply the authorised body's certificates of conformity assessment on request.

Appendix 11

Unit verification

(module G)

1. This module sets out the procedure whereby the manufacturer ensures and declares that the product concerned, which has been issued with the certificate of item 2 of this Appendix, conforms to the essential requirements that apply to it. The manufacturer or his authorised representative shall affix the CE marking to the product and draw up a declaration of conformity pursuant to Appendix 15 to this Rulebook.

2. The authorised conformity assessment body shall examine the individual product and carry out the appropriate tests according to the established standards of Article 5 of the Rulebook, or equivalent tests, in order to ensure its conformity with the relevant requirements of the Rulebook.

The authorised conformity assessment body shall affix, or cause to be affixed, its identification number on the approved product and shall draw up a certificate of conformity concerning the tests carried out.

3. The aim of the technical documentation is to enable conformity with the requirements of the Rulebook to be assessed and the design, manufacture and operation of the product to be understood pursuant to Appendix 13 to this Rulebook.

Appendix 12

Full quality assurance

(module H)

1. This module prescribes the procedure whereby the manufacturer who satisfies the obligations of item 2 of this Appendix ensures and declares that the products concerned satisfy the essential requirements that apply to them. The manufacturer or his authorised representative shall affix the CE marking to each product and draw up a written declaration of conformity pursuant to Appendix 1 to this Rulebook. The CE marking shall be accompanied by the identification number of the authorised conformity assessment body responsible for the surveillance pursuant to item 4 of this Appendix.

2. The manufacturer shall operate an approved quality system for design, manufacture and final product inspection and testing pursuant to item 3 of this Appendix and shall be subject to surveillance pursuant to item 4 of this Appendix.

3. Quality system

3.1. The manufacturer shall lodge an application for assessment of his quality system to the authorised conformity assessment body.

The application shall include:

- relevant information for the product category envisaged; and

- the quality system's documentation.

3.2. The quality system shall ensure compliance of the products with the essential requirements that apply to them.

All the elements and requirements adopted by the manufacturer shall be documented in a systematic and orderly manner in the form of written policies, procedures and instructions. This quality system documentation shall ensure a common understanding of the quality policies and procedures such as quality programmes, plans, manuals and records.

The documentation shall contain in particular a description of:

- the quality objectives and the organisational structure, responsibilities and powers of the management with regard to design and product quality;

- the technical design specifications, including standards, that will be applied and, where the standards of Article 5 of the Rulebook will not be applied in full, the means that will be used to ensure that the essential requirements that apply to the products will be met;

- the design control and design verification techniques, processes and systematic actions that will be used when designing the products pertaining to the product category covered;

- the corresponding manufacturing, quality control and quality assurance techniques, processes and systematic actions that will be used;

- the examinations and tests that will be carried out before, during and after manufacture, and the frequency with which they will be carried out;

- the quality records, such as inspection reports and test data, calibration data, qualification reports of the personnel concerned, etc.;

- the means to monitor the achievement of the required design and product quality and the effective operation of the quality system.

3.3. The authorised conformity assessment body shall assess the quality system to determine whether it meets the requirements of item 3.2 of this Appendix. It shall presume compliance with these requirements in respect of quality systems that implement the relevant Macedonian harmonised standard (EN 29001).

The auditing team shall have at least one member experienced as an assessor in the product technology concerned. The procedure shall include a visit to the manufacturer's premises.

The decision shall be notified to the manufacturer. The notification shall contain the conclusions of the examination and the reasoned assessment decision.

3.4. The manufacturer shall be obliged to fulfil the obligations arising out of the approved quality system and to uphold it so that it remains adequate and efficient.

The manufacturer or his authorised representative shall keep the authorised conformity assessment body that has approved the quality system of any intended updating of the quality system.

The authorised conformity assessment body shall evaluate the modifications proposed and adopts a decision whether the amended quality system will still satisfy the requirements of item 3.2 of this Appendix or whether a reassessment is required.

The authorised conformity assessment body shall notify its decision to the manufacturer. The notification shall contain the conclusions of the examination and the reasoned assessment decision.

4. The responsibility of the authorised body

4.1. The purpose of surveillance is to make sure that the manufacturer duly fulfils the obligations according to the approved quality system.

4.2. The manufacturer shall allow the authorised conformity assessment body entrance for inspection purposes to the locations of design, manufacture, inspection and testing, and storage, and shall provide it with all necessary information, in particular:

- the quality system documentation;

- the quality records provided for the design quality system, such as results of

analyses, calculations, tests, etc.;

- the quality records provided for the manufacturing quality system, such as inspection reports and test data, calibration data, qualification reports of the personnel concerned, etc.

4.3. The authorised conformity assessment body shall periodically carry out audits to check the maintenance and application of the quality system by the manufacturer and shall provide an audit report to the manufacturer.

4.4. Also, the authorised conformity assessment body may pay unexpected visits to the manufacturer. At the time of such visits, the authorised body for conformity assessment may carry out tests or have them carried out in order to check the proper functioning of the quality system where necessary; it shall provide the manufacturer with a visit report and, if a test has been carried out, with a test report.

5. The manufacturer shall, for a period ending at least 10 years after the last product has been manufactured, keep at the disposal of the authorised bodies:

- the documentation of paragraph 2 indent 2 of item 3.1 of this Appendix;

- the modifications of paragraph 2 item 3.4 of this Appendix;

- the decisions and reports from the authorised body of paragraph 4 of item 3.4, item 4.3 and item 4.4 of this Appendix.

6. Each authorised conformity assessment body shall forward to the other authorised bodies the relevant information concerning the quality system approvals issued and withdrawn.

Appendix 13

Technical documentation supplied by the manufacturer

The technical documentation of Appendixes 5, 7, 8, 9, 11 and 16 and must comprise all relevant data or means used by the manufacturer to ensure that components or craft comply with the essential requirements relating to them.

The technical documentation shall enable understanding of the design, manufacture and operation of the product, and shall enable assessment of conformity with the essential requirements.

The documentation shall contain so far as relevant for assessment:

a) a general description of the type,

b) conceptual design and manufacturing drawings and schemes of components, sub-assemblies, circuits, etc.,

c) descriptions and explanations necessary for the understanding of said drawings and schemes and the operation of the product,

d) a list of the standards prescribed in Article 8 of the Rulebook, applied in full or in part, and descriptions of the solutions adopted to fulfil the essential requirements when the standards of Article 8 of this Rulebook have not been applied,

e) results of design calculations made, examinations carried out, etc.,

f) test reports, or calculations namely on stability according to item 3 subitem 3.2 of the Essential Requirements and on buoyancy according to item 3.3 of the Essential Requirements of Appendix 1 under A of this Rulebook,

g) exhaust emissions test reports demonstrating compliance with item 2 of the Essential Requirements of Appendix 1 under B of this Rulebook and

g) sound emissions test reports or reference craft data demonstrating compliance with item 1 of the Essential Requirements pursuant to Appendix 1 under B of this Rulebook.

Appendix 14

Minimum criteria to be taken into account when granting work authorisation to the conformity assessment bodies

1. The conformity assessment body, its director and the staff responsible for carrying out the verification tests shall not be the designer, manufacturer, supplier or installer of products of Article 1 of the Rulebook which they inspect, nor the authorised representative of any of these parties. They shall not become either involved directly or as authorised representatives in the design, construction, marketing or maintenance of the said products. This does not preclude the possibility of exchanges of technical information between the manufacturer and the conformity assessment body.

The authorised conformity assessment body must be independent and must not be controlled by the manufacturers or by the suppliers.

2. The conformity assessment body and its staff shall carry out the verification tests with the highest degree of professional integrity and technical competence and shall be free from all pressures and inducements, particularly financial, which might influence their judgment or the result of the inspection, especially from persons or groups of persons with an interest in the result of verifications.

3. The conformity assessment body shall have at its disposal the necessary staff and possess the necessary facilities to enable it to perform properly the administrative and technical tasks connected with verification, also, it shall also have access to the equipment required for special verification.

4. The staff responsible for inspection shall have:

- sound technical and professional training;

- satisfactory knowledge of the requirements of the tests they carry out and adequate experience of such tests;

- the ability to draw up the certificates, records and reports required to authenticate the performance of such tests.

5. The impartiality of inspection staff shall be guaranteed. Their remuneration shall not depend on the number of tests carried out or on the results of tests carried out.

6. The conformity assessment body shall take out liability insurance unless its liability is not provided in accordance with the law.

7. The staff of the conformity assessment body shall be bound to observe professional secrecy with regard to all information gained in carrying out its tasks (except vis-à-vis the competent administrative authorities of the State in which its activities are carried out) prescribed by the Rulebook or by the law.

Appendix 15

Written declaration of conformity

1. The written declaration of conformity prescribed by the provisions of the Rulebook must always accompany:

a) the recreational craft and the personal watercraft and must be included with the owner's manual pursuant to Appendix 1 under A item 2 subitem 2.5 of this Rulebook,

b) the components of Appendix 2 to this Rulebook,

c) propulsion engines, and must be included with the owner's manual of Appendix 1 under B item 4) of this Rulebook.

2. The written declaration of conformity shall include:

a) name and address of the manufacturer or his authorised representative;

b) description of the product defined in item 1 of this Appendix (type, serial number, where appropriate);

c) references to the relevant harmonised standards used, or references to the specifications in relation to which conformity is established;

d) where appropriate, the references of the other national regulations applied;

e) where appropriate, reference to the EC type-examination certificate issued by an authorised conformity assessment body;

f) where appropriate, the name and address of the authorised conformity assessment body;

g) identification of the person empowered to sign on behalf of the manufacturer or his authorised representative.

3. With regard to:

- inboard engines and stern drive propulsion engines without integral exhaust,

- engines type-approved according to Directive 97/68/EC which are in compliance with stage II in Part 4.2.3 of Annex I of the latter Directive and

- engines type-approved according to Directive 88/77/EEC,

the declaration of conformity shall include in addition to the information of item 2 of this Appendix, a statement of the manufacturer that the engine will meet the exhaust emission requirements, when installed in a recreational craft, in accordance with the manufacturer's supplied instructions and that this engine must not be put into service until the recreational craft into which it is to be installed has been declared in conformity, if so provided by the provisions of the Rulebook.

Written declaration of conformity must be drawn up in Macedonian and English language pursuant to Appendix 1 Part A item 2 subitem 2.5 of this Rulebook.

Appendix 16

Product quality assurance

(module E)

1. This module describes the procedure whereby the manufacturer who fulfils the requirements of item 2 of this Appendix, ensures and declares that the products concerned are in conformity with the type as described in the EC type-examination certificate and satisfy the essential requirements that apply to them. The manufacturer or his authorised representative must affix the CE mark to each product and draw up a written declaration of conformity. The CE mark must be accompanied by the identification number of the authorised conformity assessment body pursuant to item 4 of this Appendix.

2. The manufacturer must operate an approved quality system for final product inspection and testing pursuant to item 4 of this Appendix.

3. Quality system

3.1. The manufacturer must lodge an application for assessment of his quality system for the products concerned, with an authorised conformity assessment body of his choice.

The application must include:

- relevant information for the product category envisaged,

- the quality system's documentation and

- if applicable, the technical documentation of the approved type and a copy of the EC type-examination certificate.

3.2. According to the quality system, each product must be examined and appropriate tests shall be carried out pursuant to the relevant standards of Article 5 of the Rulebook or equivalent tests shall be carried out in order to ensure its conformity with the essential requirements. All the elements and requirements provided by the manufacturer must be documented in a systematic and orderly manner in the form of written procedures and instructions. The quality system documentation must ensure a common understanding of the quality programmes, plans, manuals and records.

The application for assessment of the quality system must contain in particular a description of:

- the quality objectives and the organisational structure, responsibilities and powers of the management with regard to product quality.

- the examinations and tests that will be carried out after manufacture,

- the means to monitor the effective operation of the quality system,

- quality records, such as inspection reports and test data, calibration data,

qualification reports of the personnel, etc.

3.3. The authorised body for conformity assessment must assess the quality system to determine whether it meets the requirements of item 3.2 of this Appendix.

The authorised body for conformity assessment presumes conformity with these requirements in respect of quality systems that implement the relevant harmonised standard.

The auditing team must have at least one member experienced as an assessor in the product technology concerned. The assessment procedure must include an assessment visit to the manufacturer's premises.

The decision must be notified to the manufacturer. The notification must contain the conclusions of the examination and the reasoned assessment decision.

3.4. The manufacturer must undertake to fulfil the obligations arising from the quality system as approved and to maintain it in an appropriate and efficient manner.

The manufacturer or his authorised representative must keep the authorised conformity assessment body which has approved the quality system informed of any intended updating of the quality system.

The authorised conformity assessment body must evaluate the modifications proposed and decide whether the modified quality system will still meet the requirements of item 3.2 of this Appendix or whether a reassessment is required.

It must notify its decision to the manufacturer. The notification must contain the conclusions of the examination and the reasoned assessment decision.

4. Surveillance under the responsibility of the authorised conformity assessment body

4.1. The purpose of surveillance is to make sure that the manufacturer duly fulfils the obligations arising out of the approved quality system.

4.2. The manufacturer must allow the authorised conformity assessment body entrance for inspection purposes to the locations of inspection, testing and storage and shall provide it with all necessary information, in particular:

- the quality system documentation,

- the technical documentation,

- the quality records, such as inspection reports and test data, calibration data, qualification reports of the personnel concerned, etc.

4.3. The authorised conformity assessment body must periodically carry out audits to ensure that the manufacturer maintains and applies the quality system and must provide an audit report to the manufacturer.

4.4. Despite the periodic audits, the authorised conformity assessment body may pay unexpected visits to the manufacturer. At the time of such visits, the authorised

conformity assessment body may carry out tests or have them carried out in order to check the proper functioning of the quality system where necessary; and it must provide the manufacturer with a visit report and, if a test has been carried out, with a test report.

5. The manufacturer must, for a period ending at least 10 years after the last product has been manufactured, keep at the disposal of the national state authorities:

- the documentation of item 3 subitem 3.1. of this Appendix;

- the modifications of paragraph 2 item 3.4. of this Appendix;

- the decision and reports from the authorised conformity assessment body of subitem 3.4, subitem 4.3 and subitem 4.4 of this Appendix.

6. Each authorised conformity assessment body must forward to the other authorised conformity assessment bodies the relevant information concerning the quality system approvals issued and withdrawn.

Conformity of production assessment for exhaust and noise emissions

1. For verifying the conformity of an engine family, a sample of engines is taken from the series. The manufacturer shall decide the size (n) of the sample, in agreement with the authorised conformity assessment body.

2. The arithmetical mean X of the results obtained from the sample shall be calculated for each regulated component of the exhaust and noise emission. The production of the series shall be deemed to conform to the requirements if the following condition is met:

$X + K. S \leq L$

S is standard deviation, where:

$S^2 = \Sigma (x-X)^2/(n-1)$

X = the arithmetical mean of the results

x = the individual results of the sample

L = the appropriate limit value

n = the number of engines in the sample

k = statistical factor depending on n (see table)

n	2	3	4	5	6	7	8	9	10
k	0,973	0,613	0,489	0,421	0,376	0,342	0,317	0,296	0,279
n	1	12	13	14	15	16	17	18	19
k	0,265	0,253	0,242	0,233	0,224	0,216	0,210	0,203	0,198

If $n \geq 20$, then

$k = 0,860 / \sqrt{n}$