



## STATUTORY CERTIFICATION

Owners and operators seek assurance that their vessels will be certified to national and international standards. Bureau Veritas is recognized by many administrations as an official certification body (Recognized Organization) to carry out inspections with regard to international and national regulations on safety and environmental protection.

Bureau Veritas can provide strong support in complying with specific statutory regulations such as the European Agreement on the International Carriage of Dangerous Goods by Inland Waterways for dry, liquid or gaseous products (ADN).

We may provide support to flag state authorities to help with the implementation of national requirements.



## INTERNATIONAL SAFETY MANAGEMENT SERVICES (ISM)

The ISM Code was created to improve safety and prevention of pollution at sea. Bureau Veritas has over 180 qualified lead auditors worldwide, performing ISM audits and issuing the corresponding certificates. Certification may be offered for inland navigation vessels on a voluntary basis.

## INTERNATIONAL SHIP AND PORT FACILITY SECURITY (ISPS)

The ISPS Code aims to establish an international framework for detecting and assessing security threats affecting ships or port facilities used in trade. Around 100 Flag State authorities have given Bureau Veritas Recognized Security Organization (RSO) status. Similar certification may be offered for inland navigation vessels on a voluntary basis.

## CERTIFICATION OF MATERIALS & EQUIPMENT

Materials and equipment used for vessel construction and maintenance must conform to the Rules and applicable regulations. This includes, for instance, welding consumables, propulsion engine components, electrical devices, and fire safety equipment. Rule NR544 sets out the class requirements, summarized in an easy format, with regard to the type of equipment for the relevant type of vessel and construction character.



## TYPE APPROVAL

Type approval is an approval process attesting to compliance with the Rules of a product, a group of products or a system, considered as representative of continuous production. The technical documentation is reviewed together with the appropriate test programme.

## PRODUCT DESIGN ASSESSMENT

Bureau Veritas can verify that materials and equipment comply with the product design requirements specified by the relevant technical documentation.

## INDIVIDUAL PRODUCT MANUFACTURING

Bureau Veritas can conduct surveys relating to individual product manufacturing, including verification of the relevant tests.

## THIRD-PARTY CERTIFICATION SERVICES

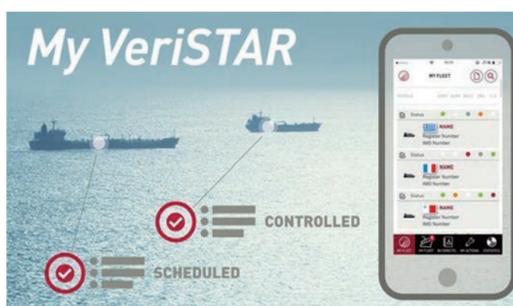
Bureau Veritas can provide third-party certification services for materials and equipment to meet the requirements of recognized standards.



## CONDITION ASSESSMENT PROGRAMME

“CAP Inland” is a service provided by Bureau Veritas as a supplement – and designed to be complementary - to class. It may be requested at any period of the vessel's life in order to determine the condition of the vessel in terms of class rules. This service is a very useful tool for all marine industry interests, applicable to classed vessels or to vessels not classed at all. It facilitates:

- More inspection criteria for assessing hull structure and onboard machinery
- More quantifiable parameters for reporting on the condition and extent of any identified damage. Quality ratings are set in order to identify easily the condition, reliability and maintenance standards of the vessel or sub-system under assessment.
- More documented reporting of the identified condition.



## DIGITAL POWER

Industries are evolving rapidly with new digital tools improving efficiency. Bureau Veritas has made significant investments in order to support clients in this industry-wide transformation.

## SHIP STATUS FOR OWNERS

Classification and statutory status of vessels classed with Bureau Veritas are available at any time to shipowners at Veristar Info Ship Data. This provides useful information such as results of surveys carried out, validity of class, one-year survey planner, planned inspection items, regulatory information and BV contacts. Subscription to [VeriSTAR Info](#) / [access to ships](#) / [become a member](#).

## NEW BUILDINGS:

BV's VeriSTAR Project Management (VPM) web-based program facilitates the management of drawing reviews and related tasks during the construction and classification process. VPM can be accessed by owners, managers, shipyards, consultants and manufacturers; depending on the function, various profiles and information can be provided for specific projects. This collaborative project management platform allows all participants to review, edit and exchange, on a real-time basis, information on plan approval assessment, inspection of works for equipment and materials, and shipyard visits.

## STAY INFORMED WITH BUREAU VERITAS

Our quarterly inland navigation newsletter will keep you updated on technical developments, regulations, BV solutions, etc. Our biannual Statutory News provides a clear summary of updates in statutory regulations.

## OUR WEBSITE:

Find all information, Rules and software at <https://marine-offshore.bureauveritas.com/>  
Easily identify Bureau Veritas-classed vessels with our online register

## BUREAU VERITAS MARINE & OFFSHORE

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Move Forward with Confidence



# INLAND NAVIGATION BUREAU VERITAS

Move Forward with Confidence





## OUR MISSION & AMBITION: SHAPING A WORLD OF TRUST

### A GLOBAL NETWORK

Bureau Veritas is a leader in **testing, inspection** and **certification**. Our mission is to reduce our clients' risk exposure, improve their performance and help them innovate to meet today's demanding quality, health & safety, environmental protection and social responsibility challenges.

### A LEADER IN MARINE & OFFSHORE - 190 YEARS OF CONFIDENCE

BV is one of the world's leading classification societies and inspection bodies, and a founding member of IACS (International Association of Classification Societies). Ship safety remains central to our mission. Our relationships are built on service, transparency and trust. We work alongside our clients, providing the advice and expertise they need, and sharing our knowledge through training and technology. We work closely with the entire marine and offshore community - designers, yards, equipment manufacturers, contractors, shipowners, oil majors and administrations around the world. "Bureau Veritas Marine & Offshore works throughout the world to help optimise our clients' business performance through our research programmes, the proactive development of new rules and guidelines and our cutting-edge digital services. In doing so, we help our clients speed up processes, reduce costs through the asset lifecycle and optimize operation." Matthieu De Tugny, Executive Vice President, Bureau Veritas Marine & Offshore.



Employing 76,000 people around the world  
Serving 400,000 clients in 140 countries  
Innovating for 190 years  
2,650 Marine & Offshore experts  
180 survey stations  
16 Local plan approval offices  
+11,000 seagoing ships classed to Bureau Veritas rules  
+ 1,600 inland navigation vessels

## INLAND NAVIGATION VESSELS

### SAFE VESSEL OPERATION AND MAINTENANCE

All sectors of the maritime industry (owners, shipyards, classification societies, underwriters, charterers, etc.) should have one objective in common - the safe operation of the vessel, and its proper maintenance. Classification societies play an important role in achieving this objective, as their mission is to promote the security of life, property and the natural environment through the development and verification of standards for the design, construction and maintenance of vessels.

- Vessel owners and their underwriters look to classification for confirmation that their vessels are built and maintained to a level which protects their investment
- Administrations look to class societies as partners in carrying out their duties
- The remainder of the maritime industry relies on classification standards as the benchmark for assessing the fitness of the vessel for its intended purpose.

190  
YEARS  
OF CONFIDENCE



## CLASSIFICATION

Classification is in fact a complete process which has been developed over many years of experience. Bureau Veritas rules embrace numerous parameters related to the strength and reliability of the hull structure such as materials (physical and chemical particulars), welding processes, welders' qualifications, calculation of total and local stresses, fatigue, bonding details, scantlings of hull components, corrosion margins, non-destructive testing, and mechanical tests. Classification covers the hull, superstructure, appendages and outfitting (such as rudder stock and propeller shaft brackets) and intact stability. It also usually includes machinery and electrical installations, the requirements for which are also based on consistent principles embracing materials, construction, scantlings (e.g., propeller shaft, propeller, tiller arm), engines, and pumps, plus tests and trials, together with the equipment related to the safety and reliability of the whole installation. Each parameter, when not strictly controlled, may jeopardize the others. Only a classification certificate can cover all the requirements and provide sufficient guarantees regarding reliability.

### CLASSIFICATION RULES

Class Rules, including guidance notes and other rule notes, constitute the technical reference for all classification activities. Their development requires dedicated R&D activities to be carried out as part of internal or co-operative research. Our Rules for classification of inland navigation vessels (NR 217) apply to a wide range of vessels operating on waterways, lakes, estuaries, and restricted maritime areas. The classification rules contain requirements applicable to specific types of vessels (e.g., dry cargo, tankers, passenger vessels, dredgers), including some more unusual types (such as high-speed launches and floating establishments) and materials (aluminium and composites). Following completion of the initial classification process, the certificate of classification defines the framework of the approval by means of precise notations describing the operational conditions of the vessel, notably type and service, maximum wave height, draft, possibly complemented by additional notations such as conditions of loading/unloading, reinforcement for ice, equipment for containers, etc.

### INLAND NAVIGATION FROM WATERWAYS TO RESTRICTED MARITIME AREAS

Today, the operation of inland vessels is not limited to waterways. Some vessels are specially designed to operate on estuaries or semi-maritime stretches and, in some countries, it is part of national strategy to use such upgraded inland vessels to reduce cargo transfer times.



BV's Rules for inland navigation vessels include notation IN(x), covering maximum significant wave heights up to 2 m. While the term 'waterways' usually suggests very limited wave heights, higher waves and swell are encountered in estuaries or maritime areas, involving more hull stresses as well as the risk of shipping water, flooding, impaired stability and crew exposure. There may also be a greater need to ensure self-return to port, with a corresponding requirement for improved bilge systems, fire protection, navigational equipment, and better qualified crews. The optional navigation notation "Estuary plus" implements technical requirements adapted to operation in restricted maritime areas. In addition to static load, the dynamic effects must be considered, as well as lateral wind pressure and arrangements for hull openings, freeboard, intact stability, etc.

### INDUSTRY LEADER IN ALTERNATIVE PROPULSION

Bureau Veritas offers expertise in LNG propulsion as well as all types of electric and hybrid solutions, with relevant additional class notations.

### STATIONARY UNITS

Bureau Veritas has published two sets of rules dedicated to the classification of floating establishments (NR580) and harbour equipment (NR612).

- Floating establishments are stationary, berthed non-propelled floating units equipped for activities associated with facilities such as restaurants, hotels, business centres, shopping malls, cinemas, and swimming pools.
- Harbour equipment covers all non-propelled floating units equipped to provide facilities such as cargo loading/unloading, passenger embarkation/disembarkation, floating bridge and miscellaneous product storage.



### VESSELS IN SERVICE - SURVEY SCHEDULE

BV classification activities and their extension to consultancy services provide a framework for safe vessel operation and condition maintenance by requiring continued compliance with Rules and Regulations, by focusing inspection on structural areas or items that are most prone to failure or degradation, by properly considering previous inspection results and relevant inspection, by clearly stating acceptance criteria (in quantitative terms), by applying condition monitoring techniques, where appropriate, for hull structure as well as for other vessel items, and by using vessel history reports. Classification surveys are crucial during the lifespan of a vessel for improved reliability and safety. These inspections are compulsory for the maintenance of classification and may differ depending on the type and age of the vessel and also on areas of operation. The detailed scope of each survey is defined in our Inland Navigation Rules NR217.

### CLASSIFICATION CERTIFICATES FOR EXISTING VESSELS

Even if an existing vessel has not been built originally under classification rules, it may be subject to assessment and inspection for the purposes of classification after construction (CAC). As a rule, a preliminary survey is carried out to assess the vessel's general condition and to inspect the available documentation (certificates, reports, etc.). A complete survey can then be performed in line with BV class Rules, usually in drydock. Classification after construction follows the same general procedure as that for new construction, but it may be customized in line with particular circumstances and the history of the vessel, adopting appropriate flexibility to allow for immediate operational constraints. The classification Rules are available for download as pdf files from <https://marine-offshore.bureauveritas.com> They are also online at [rules.veristar.com](http://rules.veristar.com)

