

YOUR CLASSIFICATION PARTNER FOR TODAY AND TOMORROW

03/23

SHIPYARD'S QUALITY SYSTEM INVOLVEMENT IN THE CLASSIFICATION PROCESS AT THE NEW CONSTRUCTION PHASE





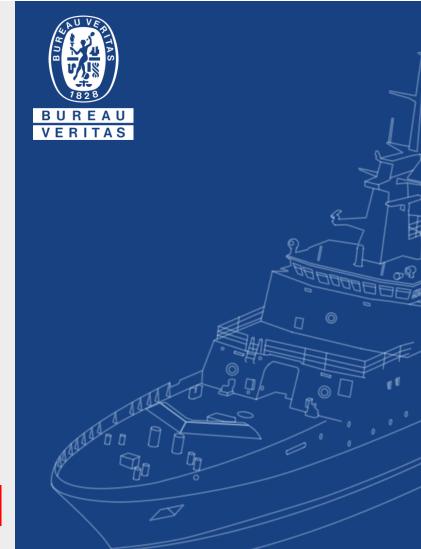


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NC

Projects of reference

03 CLASSIFICATION

What it means





VPM

IT Tool (Veristar Project Management)



INTRODUCING BUREAU VERITAS

BUREAU VERITAS GROUP

Bureau Veritas helps its clients to improve their performance by offering services and innovative solutions to ensure that their assets, products, infrastructure and processes meet standards and regulations in terms of quality, health and safety, environmental protection and social responsibility.



HELPING CLIENTS AND PUBLIC AUTHORITIES PROTECT CREW AND ASSETS

MISSION

To protect clients' people, assets, passengers and the marine environment

100

FLAG STATE ADMINISTRATIONS Recognize Bureau Veritas to approve ship security plans, perform audits, and issue international ship security certificates

130

FLAG STATE ADMINISTRATIONS Delegate authority to Bureau Veritas to verify MARPOL and SOLAS compliance

150

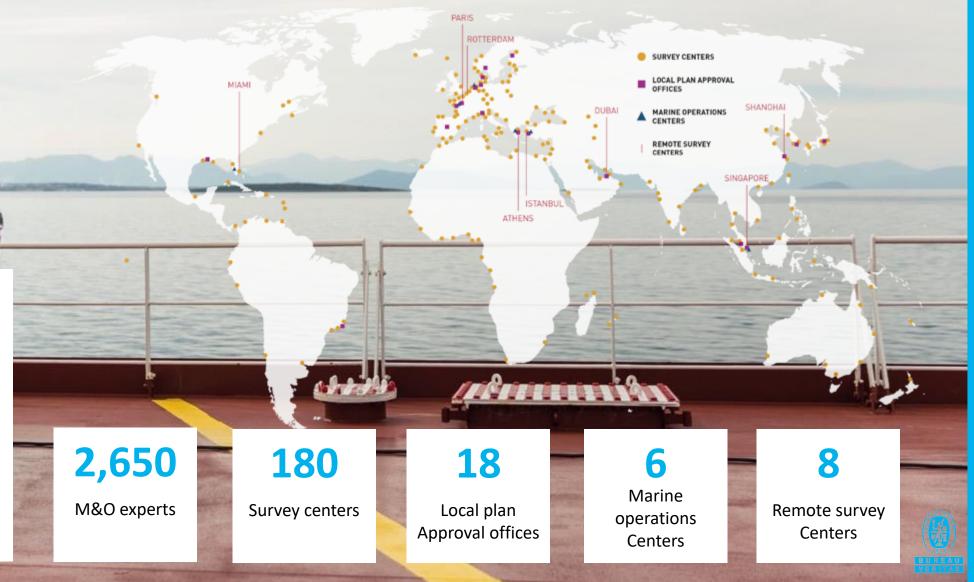
FLAG STATE ADMINISTRATIONS Trust Bureau Veritas to perform statutory surveys and audits on ships and offshore units

STREET,

MARINE & OFFSHORE ON HAND WORLDWIDE TO MEET OUR CLIENTS' CHALLENGES LOCALLY

KEY ASSETS

- Almost 200 years of classification expertise protecting lives and assets in challenging marine operating environments
- Leading expertise in the complex marine LNG sector
- Strong expertise in smart ship technology and advanced services for cyber security and resilience
- Committed to minimizing impact on oceans and atmosphere

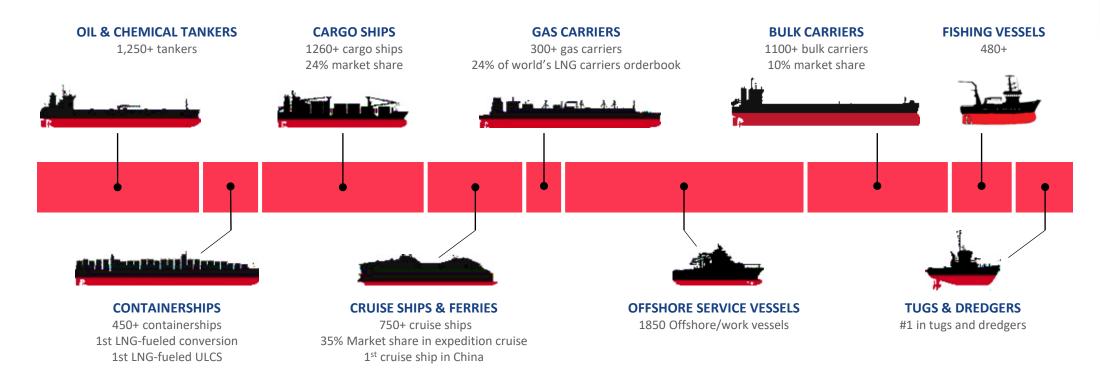




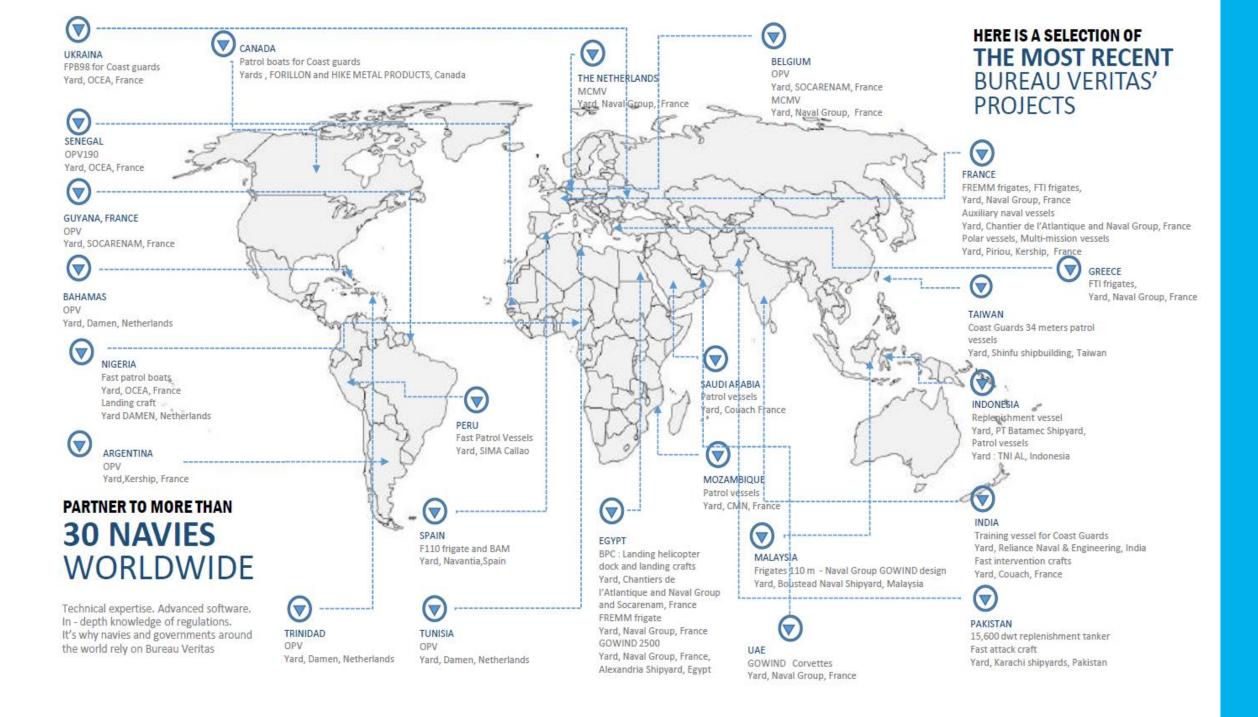
PROJECTS OF REFERENCE

A DIVERSE FLEET DEMONSTRATING EXPERTISE IN ALL TYPES OF VESSELS

11,500+ VESSELS



Proportions shown reflect gross tonnage. Total GRT of BV classed fleet at 30.07.22: 142,250,000



REFERENCES FOR PRE-STUDIES

Preliminary review done for the French Frigates FDI (displacement 4460 tons), construction of the first one is starting (Naval Group)

Preliminary review done for the Egyptian Corvettes Gowind Egypt (displacement 2500 tons), construction of two last sisterships is going on (Naval Group)

Preliminary review done for the Spanish Frigates F110 MMPV (displacement 6100 tons), under construction (Navantia)

Preliminary review done for the Bulgarian Corvettes MMPV (displacement 1720 tons), project non continued on this basis (MTG Dolphin)













MILITARY PROJECTS - FRIGATES





→ Multi-Missions Frigate FREMM

- Naval Group, Lorient, France
- France:

Aquitaine, Provence, Languedoc, Auvergne & Bretagne, Normandie, + 2 FREDA

Morocco:

FREMM Mohammed VI

Egypt:



FREMM *Tahya Misr* (French frigate sold to Egypt



→ FTI Frigate

- Naval Group, Lorient, France
- France (in construction)
- Greece (in construction)



\rightarrow F110 Frigate

- Navantia, Ferrol, Spain
- Spain

design in progress, construction of the 1st unit to be started

CORVETTES





ightarrow GOWIND ® Egypt

- Naval Group (Fr), ASY (Egypt)
- · Egypt:

El Fateh delivered in 09/17 in Naval Group shipyard (ex DCNS, France)

3 others to be built in Alexandria shipyard ASY (Egypt)



ightarrow OPV 1900

- DAMEN Galati, Turkey
- Pakistan

Yarmook and Tabuk 2 Corvettes delivered in 2020



- → Fast Attack Craft
 - Karachi Shipyard, Karachi, Pakistan
 - Pakistan
 - 1 unit



AUXILIARY & AMPHIBIOUS VESSELS





\rightarrow 2 LHD

- STX France & Naval Group, Saint-Nazaire, France
- Egypt:

ENS ANWAR EL-SADAT & ENS GAMAL ABDEL NASSER

3 has been already done for the French Navy



ightarrow 1 Replenishment Vessel

- Karachi Shipyard & Engineering Works Ltd, Karachi, Pakistan
- Pakistan:

PNS MOAWIN to be delivered soon



- ightarrow 1 Replenishment Vessel
 - PT Batamec shipyard, Batam
 - Indonesia
 1 unit



MULTI-MISSIONS VESSELS





→ 4 BSAOM

- Piriou/Kership, Concarneau, France
- France:
 - <u>B2M</u>: D'Entrecasteaux, Champlain, Bougainville & Dumont D'Urville



→ 6 BAM

- Navantia, Ferrol, Spain
- Spain:
 - Meteoro, Rayo, Relámpago, Tornado, Audaz, Furor



→ 1 Polar Logistic Vessel

- Piriou, Concarneau, France
- France (TAAF & French Navy)
 - L'Astrolabe delivered in July 2017



OPV – OFFSHORE PATROL VESSELS









\rightarrow 3 PLG

- SOCARENAM, Boulogne/Mer, France
- France:

La Confiance, La Résolue La Combattante

→ 1 STAN PATROL 5509

 DAMEN Shipyards Gorinchem, Netherland

Hellenic CG:

GAVDOS – ΛΣ 090

→ 4 OPV

Naval Group, Kership

Argentina

4 ships



LANDING SHIPS





\rightarrow 4EDAR + 2LCAT

- CNIM & SOCARENAM, France
- France:

4 units

Egypt:

2 units



\rightarrow 4 CMT

STX France, Saint-Nazaire, FR

Egypt: • 4 units



\rightarrow 1 LST 100

DAMEN Schelde, The Netherlands

Nigeria :

1 unit





CLASSIFICATION

Classification rules

NR467
 Rules For the R classification the classification the of steel ships classification of steel ships classification of steel ships classification ships designed close to merchant ships (Jan 2023)

 NR483
 Rules For the classification of Naval ships

Last edition 2022

More than 140 technical publications

(Rules and guidance notes)

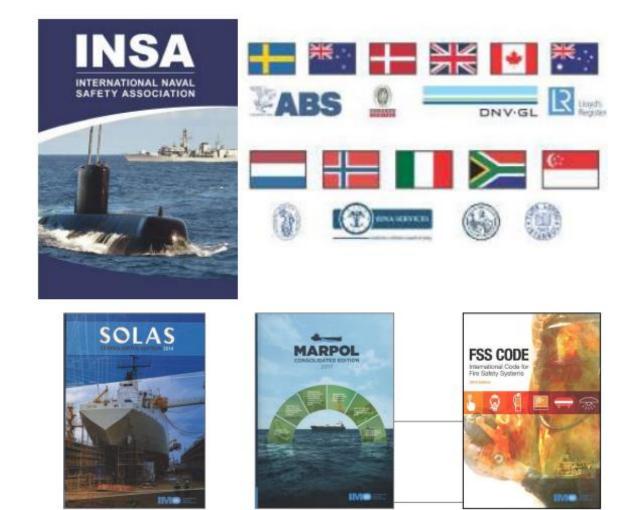
 NR217
 Rules For the classification of inland navigation vessels
 (Jun 2021)



External references

Conformity to National and international regulations

- Delegations given by flags
- Compliance with IMO codes, SOLAS, MARPOL...
- BV is an IACS notified body recognized by 130 flags



BUREAU VERITAS CLASSIFICATION









DESIGN

- Approval In Principle
- Design Assessment
- Joint Development Project
- Advise On Imo Regulations
- Advise On Notations
- Advise On Approved Equipment

CONSTRUCTION

- **Request For Certificate**
- Plan Approval
- Yard Inspection
- Issue Compliance Certificates
- **Equipment Certification**
- Support Throughout The Construction Process
- Surveys And Plan Approval Upon Delivery

IN SERVICE

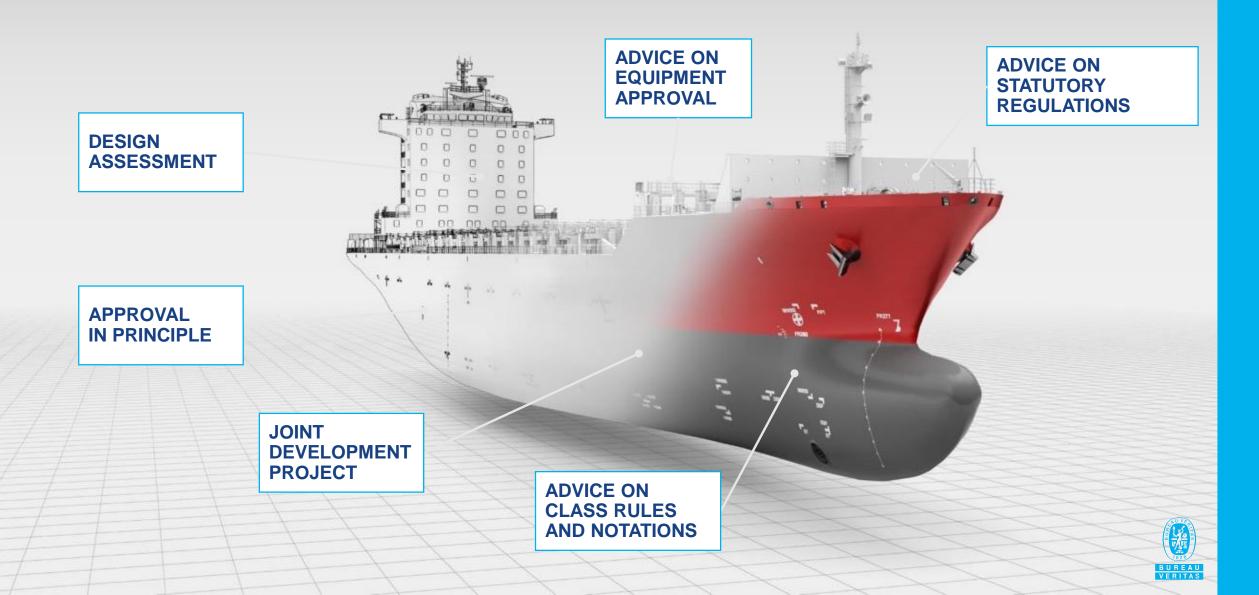
- Annual And Class Surveys
- Unplanned Surveys
- Issuance Of Certificates
- Advise On Regulation Compliance Throughout Service Life

END OF LIFE

- Administration Procedures To Withdrawn Class And Flag Certificates
- Testing And Certification Of Materials

DESIGN

FROM CONCEPT TO CLASS APPROVAL



CONSTRUCTIONFROM CONTRACT AWARD TO SHIP DELIVERY

EQUIPMENT CERTIFICATION



SURVEY AT YARD

IN SERVICE

DUSSI

Distor

20

47.0

EQUIPMENT CERTIFICATION

(BREER BREER

FROM DELIVERY TO END OF LIFE

ADVISE ON REGULATION COMPLIANCE THROUGHOUT SERVICE LIFE

> PERIODICAL CLASS SURVEYS

END OF LIFE

FROM END OF LIFE TO DISPOSAL

mark to Ball

IT THE REAL PROPERTY.

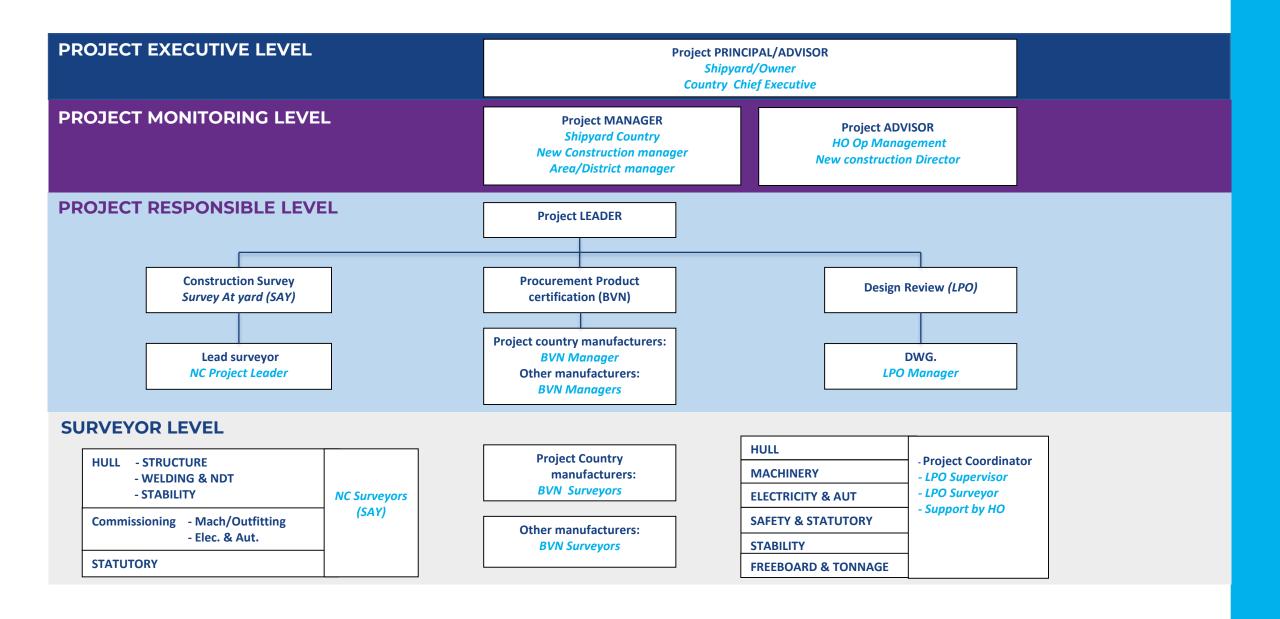


TESTING AND CERTIFICATION OF MATERIALS

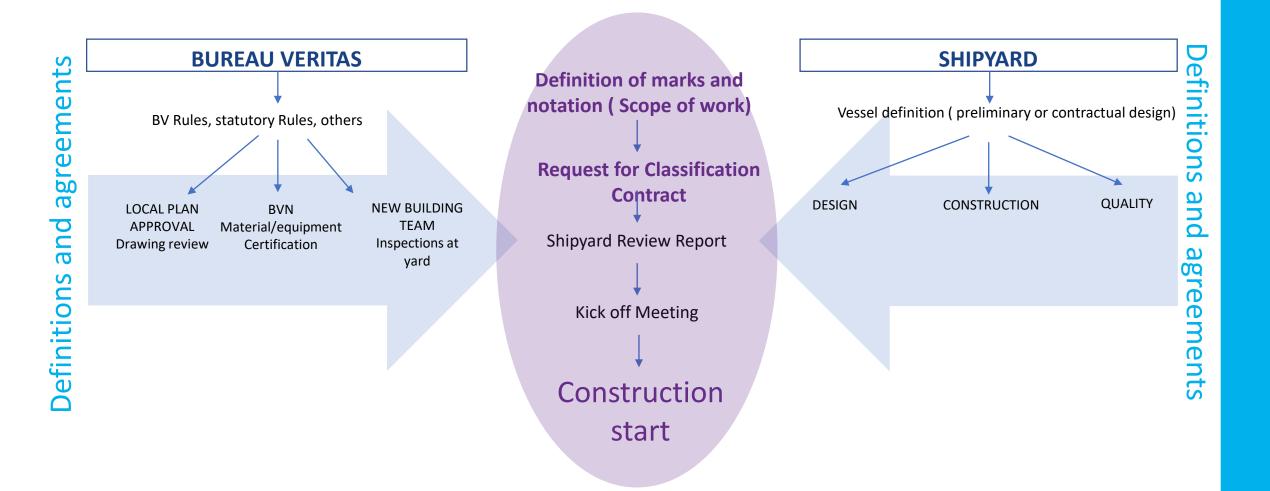


NEW CONSTRUCTION PROCESS

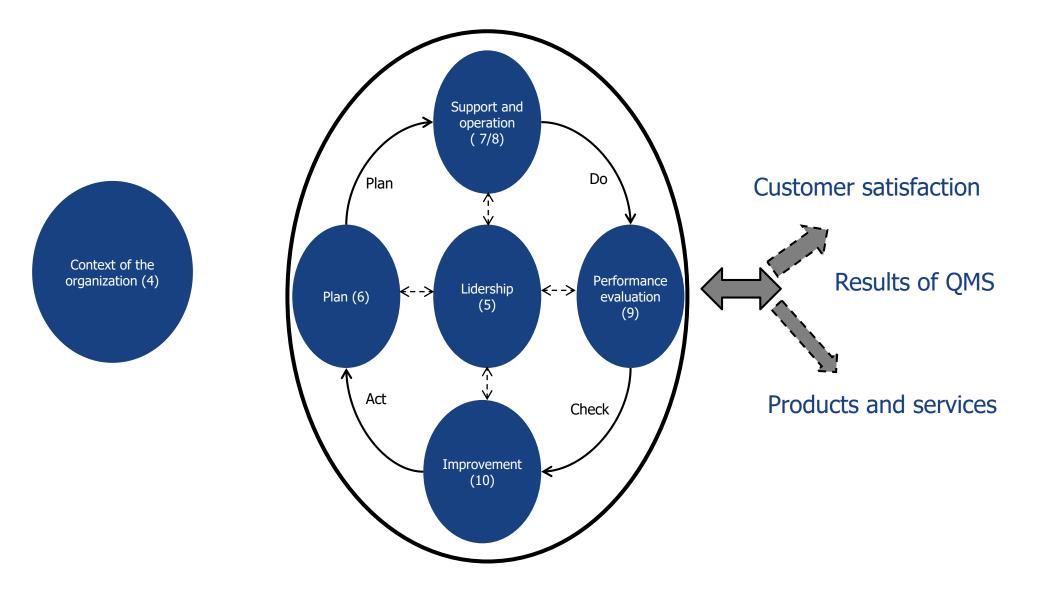
TYPICAL PROJECT ORGANIZATION



WORKFLOW AT PRE-PROJECT PHASE BETWEEN SHIPYARD AND BV



QUALITY MANAGEMENT SYSTEMS – ISO 9001



REQUEST FOR CLASSIFICATION



REQUEST FOR CLASSIFICATION

Newbuilding

REGISTER NB :

| - | - | - | | | | - | |
|---------------|---------------|--------------|--------------|----------------|-------------|----------|--|
| requests Bu | ureau Veritas | Marine & O | ffshore to p | roceed with t | he operatio | ns requi | |
| classificatio | n of the hull | and of the p | ropelling ma | achinery of th | e ship : | | |

| Shipbuilder : | |
|----------------------------------------|---------------------------------|
| Hull Nb : H1844A | Ship Name : |
| | |
| with the following contemplated class | : |
| Classification Symbol : | 1 |
| Construction marks : | HULL H MACH |
| Service notations : | Container ship LNGfuel dualfuel |
| Navigation notation : | Unrestricted navigation |
| Operating area notation(s) : | |
| Special navigation notation : | |
| | |
| Additional class notations and respect | |
| ESA | |
| CPS(WBT) | GREEN PASSPORT EU |
| AUT-UMS | AUT-PORT |
| ⊕ SYS-NEQ-1 | MON-SHAFT |
| BWT | CLEANSHIP |
| @ ALP | ERS-S |
| HVSC | LASHING-WW |
| LI-LASHING | WhiSp2 |
| INWATERSURVEY | SDS |
| LI-HG-S2 | |
| | |

Other classification society, if dual class

| Type and Service : | Container ship |
|--------------------|----------------|
| Shipbuilder : | |
| Leadership : | 41305Y |
| Registered Owner : | |
| Flag : | FRANCE |
| BV District : | SHANGHAI |

The class notations are assigned according to the type, service, operating area of the ship and other criteria which have been provided by the interested party, when applying for classification.

Class symbol indicates the degree of compliance of the ship with the rule requirements as regards its construction and maintenance.

Construction marks identifies the procedure under which the ship and its main equipment or arrangements are to be surveyed for initial assignment of the class. It is assigned separately to the hull of the ship and its appendages, to the machinery installation, and to some other installations for which an additional classification notation can be added.

Service notation defines the type and/or service of the ship which it is considered for its classification.

Additional service features gives further precision regarding the type of service of the ship (as applicable).

Navigation notations and operating area notations are assigned to limit operational zone (as applicable).

Additional class notations specify the classification of additional equipment or specific condition/installation (as applicable).

REQUEST FOR CLASSIFICATION

Other topics:

- Definition of applicable rules (date of contract)
- Series, pure/quasi sisterships

Technical contract

- Scope of service (Marks and notations)
- General conditions
- Statutory Certificates/ Attestations
- General description vessel characteristics



Bureau Veritas Marine & Offshore

ANNEX TO REQUEST FOR CLASSIFICATION REQUEST FOR STATUTORY SURVEYS AND OTHER SERVICES

| Shi | pbui | lder | | |
|-----|------|------|--|--|

Hull Nb : H1844A Ship Name

| Statutory certificates | | Ye | s No |
|---------------------------------------------------------------|-----------------------|----|------|
| Load Line | Type of freeboard : B | × | |
| With the special marks for the stowage of timber deck cargo : | | | X |
| Diving System Safety Certificate | | | |
| SOC For Non-Convention Ship - French regulation | | | X |
| SOLAS Safety Construction | | | |
| SOLAS Safety Equipment | | | X |
| SOLAS Safety Radio | | | |
| SOLAS Passenger Ship Safety Certificate | | | X |
| SOLAS Safety Construction Harmonized | | | |
| SOLAS Safety Equipment Harmonized | | | X |
| SOLAS Safety Radio Harmonized | | | |
| Special purpose ship safety certificate | | | X |
| SOLAS Cargo Ship Safety Certificate | | × | |
| SOLAS Dangerous goods | | X | |
| Korean Ship Survey Certificate | | | |
| Polar Code Safety Cargo Ship Certificate | | | X |
| Polar Code Safety Passenger Ship Certificate | | | |
| MARPOL Annex I | | × | |
| MARPOL Annex II Noxious Liquids | | | |
| MARPOL Annex IV Sewage certificate | | × | |
| MARPOL Annex V Garbage Statement of Compliance | | × | |
| MARPOL Annex VI Prevention Air Pollution Certific. | | × | |
| MARPOL Annex VI IEE Certificate | | × | |
| International Ballast Water Management Certificate | | × | |
| IMO Fitness IGC Code | | | X |
| Hong Kong Convention | | | X |
| IMO Fitness IBC Code | | | |
| EU Certificate on Inventory of Hazardous Materials | | × | |
| Marpol Annex VI SEEMP Pt II Confirm. of Compliance | | | |



Bureau Veritas Marine & Offshore

ANNEX TO REQUEST FOR CLASSIFICATION

GENERAL DESCRIPTION OF THE HULL (1)

Shipbuilder

Hull Nb : H1844A Ship Name

SCHEDULE (Day Month Year)

| Steel Cutting : | 27 / 02 / 2023 | Launching : | 07 / 02 / 2024 |
|-----------------|----------------|-------------|----------------|
| Keel Laying : | 10 / 10 / 2023 | Delivery : | 30 / 08 / 2024 |
| | | | |

Declared date of contract prospective owner x shipbuilder : 30 / 04 / 2021

HULL

| Length (BP) : | 330.36 m | Length (overall) : | 336.00 m |
|-------------------|----------|--------------------|----------|
| Breadth Moulded : | 51.00 m | Maximum Draft : | 15.50 m |
| Freeboard : | mm | | |

Depth (Moulded) top of keel to top of :

| upper deck beam at side : | 26.80 m |
|------------------------------------------------|---------|
| freeboard deck : | m |
| upper most deck covering at least 70% of LPP : | 26.80 m |
| LBC : | 459245 |
| Gross Tonnage (69) estimated : | 123996 |

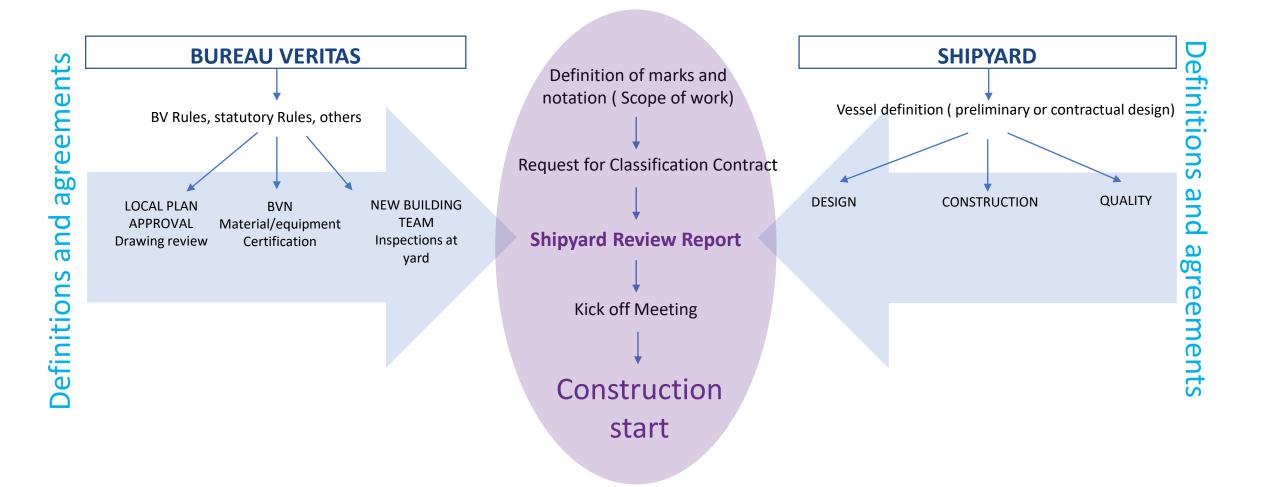
Huli malerial : Steel

CARGO CAPACITY AND HANDLING

Containers dimensions : Deadweight : 145650

(1) For Information only and without prejudice

WORKFLOW AT PRE-PROJECT PHASE BETWEEN SHIPYARD AND BV



- Detail of any management systems : ISO standards or others
- Construction facilities : identification
- ✓ Building Berth or Dock (name, dimensions, capacity (GT), cranes)
- ✓ Outfitting quays (name, dimensions, berthing capacity (GT), cranes)
- Main fabrication and erection facilities
- Shipyard control of qualified welders for shipyard workers and/or subcontracted workers (certification, traceability, supervision, maintenance of qualification)
- Feature of construction procedure
- ✓ Subcontract of hull blocks (weight):
- Method of plate block assembly
- Pre-erection outfitting carried out, grand block/mega block adopted & method of erection at building berth/dock: max weight of loading block (tons)
- ✓ Final dock
- Quality Control System
- ✓ Organization chart
- ✓ Quality control organization
- ✓ Pre-inspection system of shipyard
- ✓ Record of inspections and test
- Condition at the time of surveys with class society

- Measures for safety and health
- ✓ Conditions of scaffolding, nets
- ✓ Radiographic examinations
- Control system of Non-Destructive Examinations (NDE)
- ✓ Number of NDE supervisor
- ✓ Any subcontractor (employers, qualifications)
- ✓ Grade of qualifications at yard (radiography, ultrasonic, surface detection)
- ✓ Equipment for NDE (if any)
- Quality control on Production Line
- ✓ Preventing measures for misuse of materials
- ✓ Shot blasting/primer coating
- ✓ Marking and cutting (assembly work)
- ✓ Control welding procedure
- ✓ Treatment of resinous NC
- Hydrostatic and watertight test

| Page 1 / 1 | 2.3 Main Fabrication and Erection Facilities |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bureau Veritas Marine & Offshore & Cours du Triangle S2000 Puteaux - France Tel. 33 1 55 24 70 00 Fax. 33 1 55 24 70 45 www.veristar.com BUREAU VERITAS BUREAU VERITAS BUREAU VERITAS | (1) Marking and cutting of steel plates (including internal members) - Marking method (Manual, Photo x, EPM x, NC x others) - NC cutting machine (Gas x, Plasma x, Laser x) Control procedure of NC (On-line, other) - - Cutting equipment (Edge planer x, Roll-shear x) |
| The undersigned J. Ma Marine surveyor to Bureau Veritas Marine & Offshore visited the facilities of above mentioned shipbuilder on 21 Feb 2022, to perform a general review. The result is included in the attached Record, supplemented by the following information: | Cutting equipment (Euge planer x, Roll-shear x) (2) Marking and cutting of section bar - Marking method (Manual, NC) - Marking of reference curved line (Manual, NC) - Cutting method (Manual, NC) - In case of NC (Gas x, Plasma x) |
| 1. General situation No additional information. 2. Summary of facilities No additional information. | (3) One-side automatic welding machine (Yes, No) - Type of welding machine (Flux Backing x, Flux and Copper Backing x other) - Existence of special surface plate for plate welding (Yes, No) |
| 3. Welder / WPS / NDT No additional information. 4. Method of construction/launching No additional information. 5. Management system No additional information. | (4) Fillet welding machine (Gravity, Automatic) Percentage of automatization except gravity: about% - Line Welder (No, Yes: submerged arc x heads, CO ₂ x heads) - Small automatic fillet welding machine (No, Yes: Name: x) - Welding robot (No, Yes: Portal x, Rectangular x, Articulated x) |
| Material treatment and storage No additional information. Technical support No additional information. Above review is not an audit of Quality System Management of the shipbuilder. Based on IACS UR223 related to review of | (5) Painting equipment Plate shot blasting/primer coating machine (No, Yes: Max. Width m, Length m) Section bar shot blasting/primer coating machine (No, Yes: Max. Length m) Special coating factory (No, Yes: m x m x sections) |
| shipbuilder's construction facility, it is intended to assist BV to deal with the surveys of the new building project as stipulated in the Request for Classification signed by the Shipbuilder. <u>Attachment:</u> The attached Record, IACS URZ23 Appendix1 for Shipbuilder Review, is part of this report. Issuance date: 03 Mar 2022 | (6) Vertical automatic welding machine (No, Yes: EG x, SEG x, ES x) EG: Electrogas SEG: Simplified Electrogas ES: Electroslag (7) Other main fabrication facilities |



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3. Shipyard Control of Qualified Welders (1) Normal steel

maintenance of qualification certification traceability supervision confirm system in Shipyard workers Yes / No Yes / No Yes / No Yes / No place confirm system in Subcontracted workers Yes / No Yes / No Yes / No Yes / No place

4. Feature of Construction Procedure

| 1) Sub | contract of hull blocks (w | eight) | |
|----------|-------------------------------------|--------------|--------------------------------------------------------------------------|
| - | Sub members | (No, Ye | s: Ratio of subcontracted works%, No., of subcontractors) |
| - | Blocks | (No, Ye | s: Ratio of subcontracted works %, No., of subcontractors) |
| 2) Met | hod of plate block assem | bly | |
| - | Method fitting and weld | ing longitu | dinals and transverse webs on jointed panels |
| - | Method welding longitue | dinals on jo | pinted panels prior to fitting and welding transverse webs |
| - | Method fitting and weld | ing a frame | e consists of longitudinals and transverse webs on jointed panels |
| - | Method jointing panels webs | with pre-as | sembled longitudinals by welding prior to fitting and welding transverse |
| - | Other (please specify in | (5) below |) |
| 3) - pre | e-erection outfitting carrie | ed out | |
| gra | and block/mega block add | opted | |
| Me | thod of erection at building | ng berth/do | pck |
| - | Max. weight of loading l | block: | ton |
| - | Construction method in entrance) | building de | ock/berth/land construction etc. (1 ship, 1.5 ships: Semi-tandem, dual |
| - | Block loading process | (single st | arting block, multi starting blocks, inserting block: No, Yes) |
| (4) Fina | al dock (No, Yes: In-ho | use, Othe | er place of the same company, Use other company) |
| (5) Oth | er feature of construction | procedure | • |

5. Quality Control System: (Refer to Quality Manual, if available.)

| Item and description | Result | Rema |
|---------------------------------------------------------------------------------------------------------------------------------|---------------------|------|
| (1) Existence of the organization chart including the departments of design, purchasing, manufacturing and quality assurance | 5 | |
| Are the function, responsibility and competence of the organization clear? | | |
| (2) Quality control organization | | |
| - Existence of quality control organization | | |
| - Number of employees in this organization | persons | |
| Existence of procedures or plans related to tests and inspections | including the chief | |
| (3) Pre-inspection system of shipyard | | |
| - Is pre-inspection carried out prior to Class inspection? | | |
| - Are pre-inspectors assigned? (Check the list.) | | |
| - Number of pre-inspectors (related to hull only) | | |
| Are inspection results marked on the object and/or recorded in the checklist? | persons | |
| (4) Records of inspections and tests | | |
| - Are records made and kept properly? | | |
| - Does the responsible person verify the records? | | |
| Can the adoption of necessary corrective actions agains non-conformity happened be checked? | st | |
| (5) Condition at the time of the surveys in the presence of class surveyors | | |
| - Is the schedule of the surveys changed often? | | |
| Are pre-inspection, shipyard inspection and repairs completed beforehand? | | |
| Are the sufficient preparations for surveys such as scaffoldings, lighting, cleaning made? | | |

6. Measures for Safety and Health Z23

(cont)

| Item and description | Result | Remarks |
|----------------------------------------------------------------------------------------------------------|--------|---------|
| Are conditions of scaffolding, nets, safety belt, lighting and rentilation good? | | |
| 2) Does sufficient attention paid for radiographic examination ind operation of cherry picker? | | |

7. Control System of Non-Destructive Examination (NDE)

| Item and description | Result | Remarks |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------|
| (1) Number of NDE supervisors in shipyard (including persons responsible for judging results) | persons | |
| (2) Dependence on subcontracted NDE work | | |
| - Number of shipyard employees | persons | |
| - Number of sub-contractors | persons | |
| (3) NDE sub-contractor company's name and official technical qualifications | Name | |
| technical qualifications | (approved by) | |
| | Name | |
| | (approved by) | |
| (4) Grade and number of NDE employees with official technical qualifications in shipyard | | |
| Specialized in radiography | Grade persons | |
| Specialized in ultrasonic | Grade persons | |
| Specialized in surface detection | Grade persons | |
| (5) If non-destructive examinations are subcontracted, the grade and number of officially qualified persons | | |
| Specialized in radiography | Grade persons | |
| Specialized in ultrasonic | Grade persons | |
| Specialized in surface detection | Grade persons | |
| (6) Non-destructive examination equipment (in house) | | |
| - Number of radiographic equipment | | |
| - Number of ultrasonic equipment | | |
| Note: Even if all works are subcontracted, it is recommendable to works. | attach the qualified person(s) wh | o can verify the |

8. Quality Control on Production Line Item and description Result Remarks 8.1 Preventative measures for misuse of materials (1) Job title of supervisor and person in charge of collating Title of supervisor: ordered steel and received steel, and checking of mill sheet Title of person in charge: (2) Are means for checking the material grade in hand prescribed for high-grade steels (3) Are regulations prescribed for checking the material grade for high-tensile steel for low-temperature applications? Are there regulations for inscribing high tensile steel on the surface of the high tensile steel and special indication for steel for low temperature applications? (4) Are procedures for re-using of remaining cut-off mild steel? (5) Are there procedures for re-using of remaining cut-off high-tensile steel? (6) In the case of (4) and (5) above, can a collation be made with the mill sheet? (7) Section of controlling the lists of remaining cut-off steel Name of section: Note: In case of high tensile steel, are means identifying different grades In the case of (3) and (4) above, are the materials approved by other classes controlled similarly? 8.2 Shot blasting/Primer coating (1) Existence of surface preparation standards (2) Existence of coating thickness control standards - Existence of thickness measurement records Note: - The standard is to include the description related traceability after shot blasting and primer coating. 8.3 Marking and cutting (Assembly work) (1) Existence of standards for accuracy and periodical inspection of tape measures, tapes, stencils, etc. (2) Existence of standards for accuracy of cut dimensions

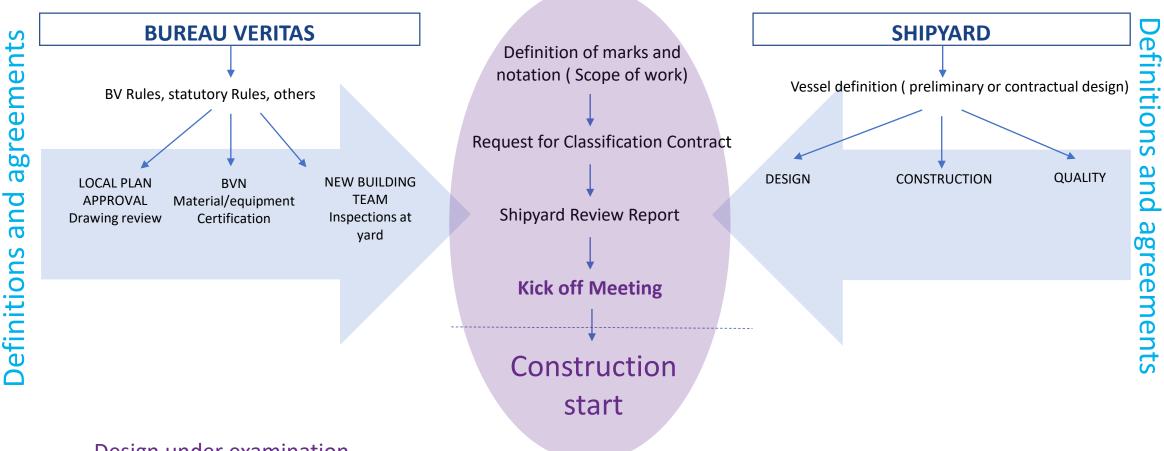
and edge preparation

and/or flame planer?

(3) Existence of standards for finish of cutting face (4) What is the frequency and extent of maintenance and inspection carried out for ensuring accuracy of NC cutter

| Item and description | Result | Rem |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------|
| (5) In case of NC, are the disks, tapes etc. maintained in good condition? | | |
| (8) What are the measures adopted and guidance given to make the worker fully conversant with cutting work standards for maintaining accuracy? | | |
| Note: - In case of (2) and (3) above, check items are to in piercing hole. - NC for section bars is also to be in accordance wit | | ations free fro |
| 8.4 Bending and strain free | | |
| (1) Existence of standards for maximum heating temperatures during water cooling and at the time of bending and distortion removal of steel by quick heating and cooling | | |
| (2) Existence of regulations for plate thickness and bending radius for flange processing | | |
| (3) What are the measures adopted and guidance given to make the worker fully conversant with maintaining quality and accuracy during the bending process? | | |
| Note: | | |
| 8.5 Control of welding procedure | | |
| (1) Are all welding procedures applied to the ships approved by the Society or other IACS members? | | |
| Note: | | |
| 8.6 Treatment of serious non-conformities | | |
| (1) Are repair plans submitted to the Society when serious non-conformities happened? | | |
| (2) Were the NDE (RT/UT) plans submitted at appropriate timing? | | |
| (3) Was the extent of tests extended considering the results of the test? | | |
| Note: | | |
| 8.7 Hydrostatic and watertight tests | | |
| (1) Is the test plan submitted to the Society? | | |
| (2) Are vacuum tests applied to? | | |
| | | |

WORKFLOW AT PRE-PROJECT PHASE BETWEEN SHIPYARD AND BV



--- Design under examination

| | | KICK OFF MEET | TING RECORD | | |
|-------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------|---------------------|-------------------------|-------------------------------------------------------------------------|
| SHIP NAME | | BV Reg. N° | | LEADER SHIP BV N° | |
| SHIP BUILDER | | SHIPYARD | | HULL N° | |
| OWNER | | FLAG | | MEETING DATE | |
| NAME & POSITION | SIGNATURE | NAME & POSITION | SIGNATURE | NAME & POSITION | SIGNATURE |
| | | | | | |
| | | | | | |
| Contract date (PR29) | | (To be documented by Shipy | ard declaration) | | |
| Scheduled Steel Cutting | Scheduled Keel Laying | Scheduled Launching | Scheduled Sea Trial | Scheduled Delivery Date | |
| | | | | | |
| Item | | ription tract review | Agre | Remark | |
| Class symbol and Construction marks | | | | | |
| Service notations and Navigation notations | | | | | Survey and class Requirements |
| Additional service feature SMART(), SW-Registry, CBM, | | | | | Software registry and compliance with UR E22, Survey requirements |
| Additional class notations (i.e. if ALM/ALP list of covered items to be agreed) | | | | | Survey and class requirements |
| Additional following class notations CYBER, BIORISK, GREEN PASSPORT (EU), CONF- NOISE, CONF-VIB | | | | | Survey and class requirements |

| | | KICK OFF MEETING RI | ECORD | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SHIP NAME | | BV Reg. N° | LEADER SHIP BV N° | |
| SHIP BUILDER | | SHIPYARD | HULL N° | |
| OWNER | | FLAG | MEETING DATE | |
| Statutory Surveys as per RFC within the scope of the following certificates (verify flag authorization) Additional requirement for following Flag: CANADA (See BV Canada) FRANCE (See DO-NCM) Other Surveys for issuance of the following attestations | | | | Survey requirements, Statutory Check Lists Survey requirements, Compulsory involevement of BV Canada at early stage for CANADA Flag. Survey requirements |
| Items / Agenda | Descript Detail of discussio | | Agreement, Reply or Action by | Remark / Conclusion Follow-up / Due date |
| Applicable rules: BV Rules, Statutory Rules, Flag Rules (to be available at the Shipyard). | Documents to be enclosure: regulation according to cont millestones. Copy of Flag in | ist of applicable rules and ract date and or statutory | Policit by | r onow-up / Due date |
| List of drawings and documents to be submitted (drawings as per rules, list available in VPM) | To be submitted to | PL for follow up | | |
| List of Materials and Equipment to be certified by the Society (List available in VPM or NR266) | Separate list preparation accord | ling to the project equipment | | |

| | KICK OFF MEET | ING RECORD | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------|-------------------|--|
| SHIP NAME | BV Reg. N° | | LEADER SHIP BV N° | |
| SHIP BUILDER | SHIPYARD | | HULL N° | |
| OWNER | FLAG | | MEETING DATE | |
| OWNER | FLAG | | MEETING DATE | |
| Statutory Materials and Equipment to be certified (list available in VPM or NR266) | | | | |
| Review of the construction facilities. (to be updated if necessary in VPM) | | | | |
| List of Subcontractors with contacts to be provided by the Builder (design, hull construction, NDT, machinery, electricity, etc) | | | | |
| Builder to provide Surveyor's contact during the construction (address, mobile, fax, e-mail, organization chart, etc) | | | | |
| Circulation and distribution of drawings and documents between Builder/Shipyard and the Society to be agreed upon | | | | |
| Society intervention procedure to be agreed upon: Intervention form, notification time. Shipyard is to perform their own inspection prior to Society survey. Safety during survey | | | | |

| | | KICK OFF MEE | TING RECORD | | |
|-------------------------------------------------------|-------|--------------|-------------|-------------------|--|
| | | | | | |
| SHIP NAME | | BV Reg. N° | | LEADER SHIP BV N° | |
| SHIP BUILDER | | SHIPYARD | | HULL N° | |
| OWNER | | FLAG | | MEETING DATE | |
| | | | | | |
| Inspection plan (Witness and | | | | | |
| notified points etc.) to be | | | | | |
| submitted by the Builder for Society consideration | | | | | |
| Society consideration | | | | | |
| | | | | | |
| Unscheduled or Patrol | Patro | l Plan | | | |
| inspections (the Society may | | | | | |
| perform patrol inspections at | | | | | |
| any time during the construction). Shipyard is to | | | | | |
| give free access on board | | | | | |
| and in workshops to | | | | | |
| Surveyor. The Society is to | | | | | |
| inform of likely intervals for | | | | | |
| patrol activities | | | | | |
| Process to issue and clear | | | | | |
| non-conformities on | | | | | |
| reviewed drawings and those | | | | | |
| raised during surveys is to | | | | | |
| be agreed upon | | | | | |
| Shipyard fabrication | | | | | |
| standard | | | | | |
| IACS recommendation 47 or | | | | | |
| a recognized fabrication | | | | | |
| standard (RFS) accepted by | | | | | |
| the Society | | | | | |

| | KICK OFF MEETING RECORD | | | | | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------|--|--|--|--|--|--|--|
| | | | | | | | | | |
| SHIP NAME | BV Reg. N° | LEADER SHIP BV N° | | | | | | | |
| SHIP BUILDER | SHIPYARD | HULL N° | | | | | | | |
| OWNER | FLAG | MEETING DATE | | | | | | | |
| Quality meetings with the Builder/Shipyard when deemed necessary. Subjects such as (but not limited to): additional survey, missing drawings or certificates, pending remarks etc. Minutes to be recorded | | | | | | | | | |
| Documents given to the Builder during the kick-off meeting: any documents deemed necessary such as (but not limited to): The list of drawings and materials to be certified or NR476, Approval Testing of Welders | | | | | | | | | |
| Documents requested from the Builder during the kick- off meeting such as (but not limited to): Block plan. Inspection plan, NDT plan and reports, WPS and WPQR, Tank test list | | | | | | | | | |

| | KICK OFF MEE | TING RECORD | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------|-------------------|--|
| SHIP NAME | BV Reg. N° | | LEADER SHIP BV N° | |
| SHIP BUILDER | SHIPYARD | | HULL N° | |
| OWNER | FLAG | | MEETING DATE | |
| Documents requested from the Builder before ship delivery such as (but not limited to): Commissioning and test records, dock trial records, sea trials records | | | | |
| Documents issued to the Builder/Client at ship delivery such as (but not limited to): class and statutory certificates, attestations | | | | |
| Plan approval locations | | | | |
| Miscellaneous: - PSPC - Asbestos attestation - Steering gear test - Tank test plan - Greenpassport - Others | | | | |
| | | | | |
| | | | | |
| | | | | |

Description of RFC

- Class symbols and construction marks (which define the scope of the work to be performed from BV for drawing review and inspections at yard)
- Service notations and navigation notations
- ✓ Additional service features /Additional class notations
- Statutory surveys as per agreed in RFC within the scope of the required certificates (verification of flag authorization/delegation, if applicable)
- Other surveys for issuance of the specific attestations
- Agreements to be done between Shipyard and BV
- ✓ Applicable rules: BV rules, statutory/flag rules (to be available at the Shipyard)

List of drawings and documents.

- List of pending Design Review comments
- Main & revision drawings will be reviewed by BV (HO and LPOs).
- All test procedures to be reviewed by Project Leader

List of Materials and Equipment to be certified

- List of materials and equipment to be certified by BV and/or Administration.
- BV will check at least 1-2% of all steel plates and pipes materials and equipment which are going to be used for this project for certification of the material.
- Material / equipment certificates to be available before each concerned survey.
- » BV will check 100% of the submitted certificates for validity and consistence

- Statutory materials and equipment to be certified
- Review of the construction facilities. (if update need to be done)
- List of Subcontractors with contacts to be provided
 - List of outside subcontractors involved in hull/outfitting fabrication for the project (including their work scope to be submitted to BV)

✓ Society intervention procedure to be agreed

- Shipyard is asked to perform their own verifications before official inspection to avoid any failures during inspection.
- Notifications timing from Shipyard to BV for inspection shall be agreed
- Shipyard main contacts for BV Team
- Circulation and distribution of drawings/documents between Builder/ Shipyard and BV
- BV intervention procedure to be applied: Intervention form, notification time, shipyard inspections prior to BV survey, safety conditions during surveys
- Inspection & Test Plan (ITP) to be submitted by the Builder
 - V Notification, Hold, Witness, Review, etc...
 - Surveys will be carried out according to the ITP agreed on with the builder
 - Statutory surveys will be carried out using the checklists as delegated by the flag. (SOLAS, MARPOL, ADN, ESTRIN, etc)

✓ Unscheduled or <u>Patrol inspections</u> (Second part of KoM)

- BV surveyors shall perform unscheduled inspections at any time during the construction
- Shipyard once informed is to give the surveyor free access onboard / Workshops, etc...
- BV will perform the following types of patrol survey (list not exhaustive):
 - Welding process, welding consumables, welder qualification, welding procedures, welding equipment, welding environment, welding supervision, welding surface discontinuities, welding embedded discontinuities)
 - ✓ Survey of Surface preparation, Fit-up, Alignments and so on
 - ✓ Steelwork process, e.g. sub assembly, block
 - ✓ NDE conformity verification
 - ✓ Machinery, piping and accessories installation on board
 - ✓ Electrical installation on board
 - ✓ Passive fire protection, penetrations of fire boundaries and fire draft stops
 - ✓ Corrosion protection systems (antifouling systems, application of protective coating for dedicated seawater ballast tanks)
 - ✓ Patrol survey for confirmation of compliance with the statutory check lists for the items not included in the ITP

✓ Process to issue and clear non-conformities on reviewed drawings and result of inspections

- ✓ Shipyard fabrication standard
 - Structural fabrication is to be carried out as per shipyard standard or national standards accepted by the Society

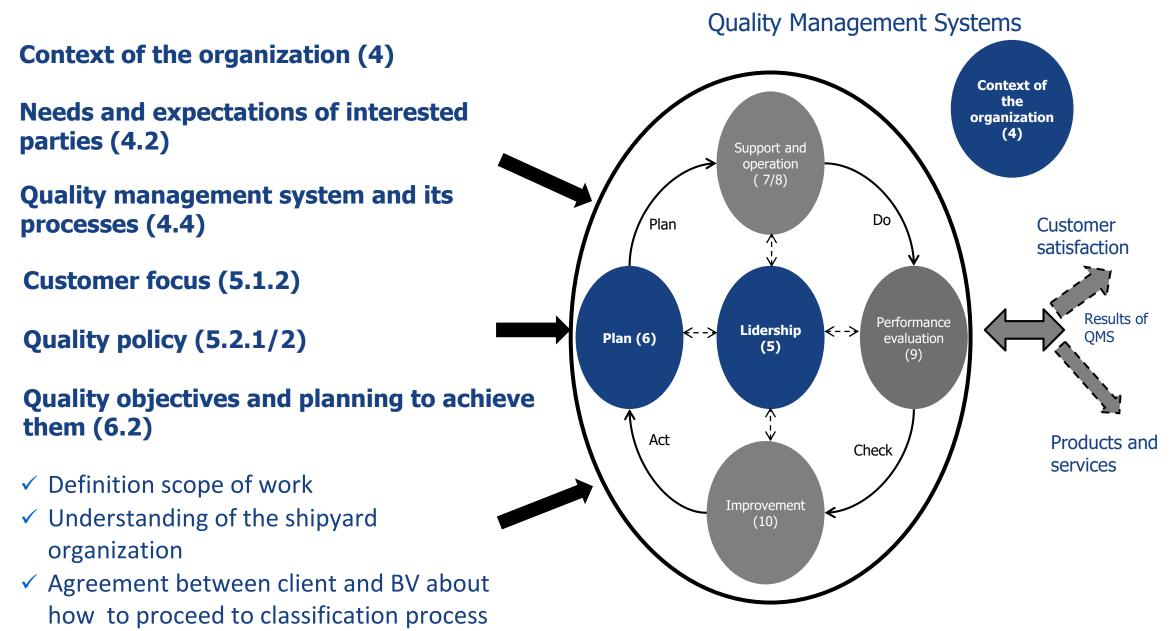
Quality meetings with the Shipyard when deemed necessary

- Quality meeting will be held by the request of one of the parties when ever it is necessary.
- Minutes of meetings will be recorded and agreed between both parties.

✓ Documents requested from the Shipyard during the kick-off meeting

- 1. Project schedule and milestones
- 2. Inspection and Test Plan
- 3. NDT plan with procedure
- 4. Block division plan with detail
- 5. List of Welder & NDT Operator (every 6 months)
- 6. List of applicable WPS(WPQR) inc. Welding consumables
- 7. NDE Equipment Calibration records
- 8. General arrangement drawing
- 9. Shipyard Organization charts(Design/QM/HSE)
- 10. On board Test Procedure inc. Mooring, Sea & Gas trials
- Documents requested from the Builder before ship delivery , such as (but not limited to): commissioning and test records , dock trial records , sea trial records
- Documents issued to the Builder/Client at ship delivery , such as (but not limited to): class and statutory certificates , attestations
- ✓ Plan Approval office
- Miscellaneous as PSPC ,Asbestos attestation, Steering gear test, Tank test plan, Green passport, Ship Construction File, Others

RESULT OF PRE-PROJECT PHASE





VERISTAR PROJECT MANAGEMENT

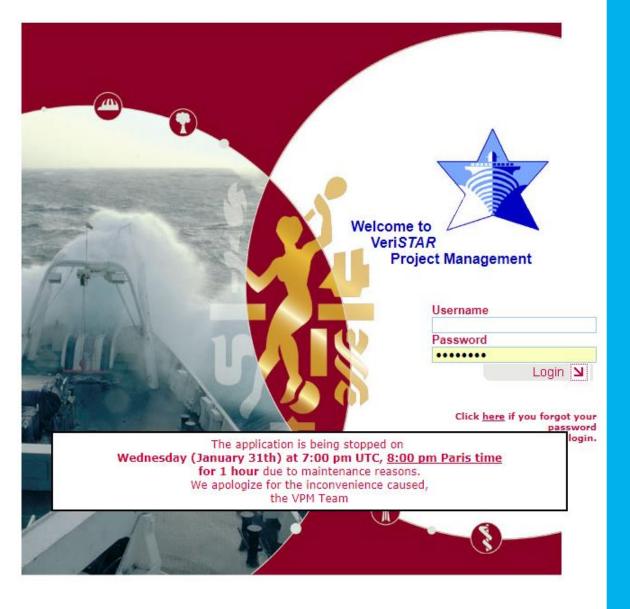
VERISTAR PROJECT MANAGEMENT

Web-based platform

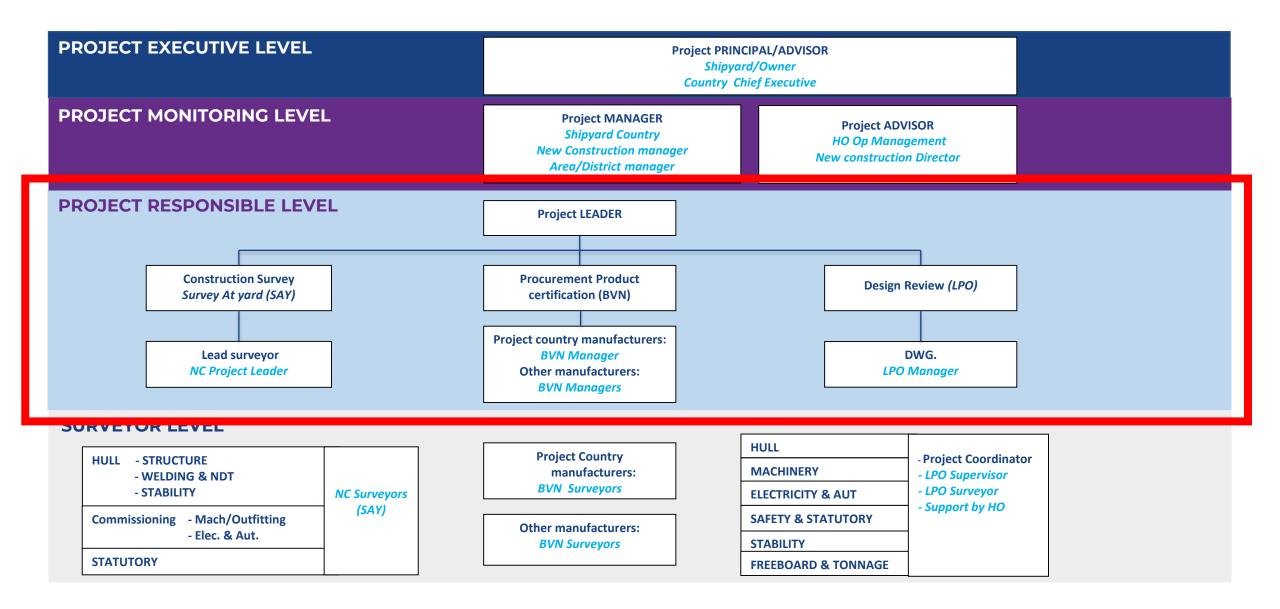
- BV tool for drawing & comments follow-up
- Dedicated access for designer, shipyard & shipowner
- Real-time access to all drawings & related comments
 - Direct upload of drawings
 - Access to stamped reviewed drawings
 - Direct reply to Class comments
 - Live status of comments (pending / answered / cleared...)

VPM ACCESS available for:

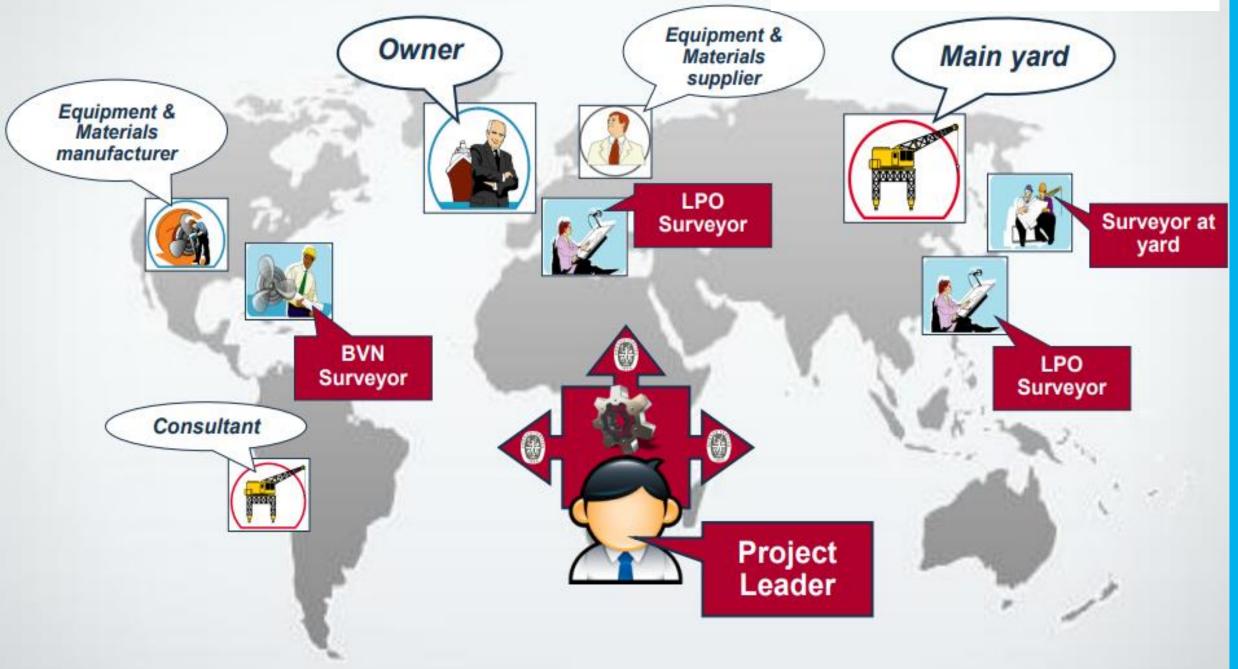
Design office Shipyard Subcontractors Ship owner



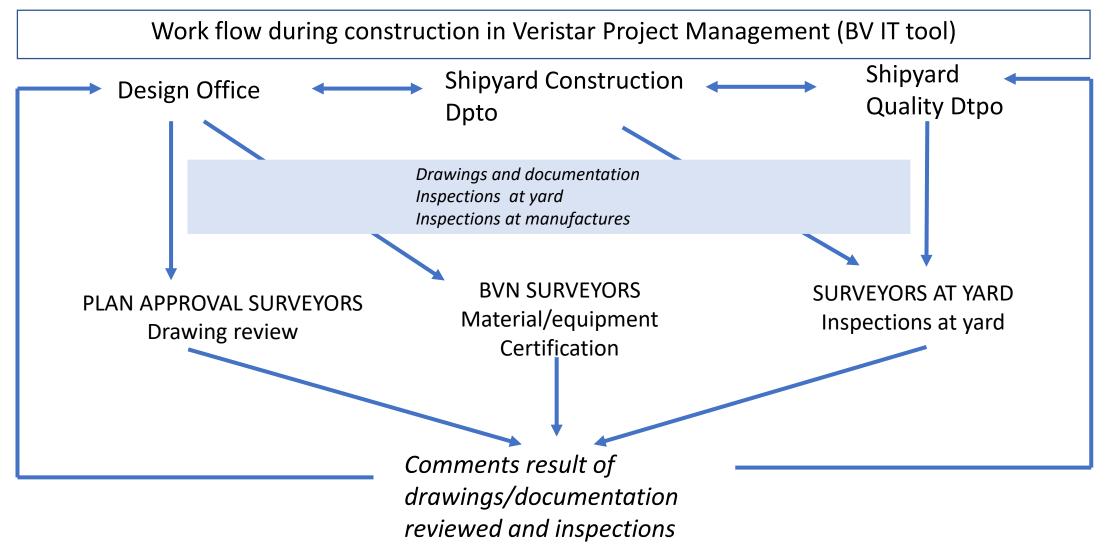
TYPICAL PROJECT ORGANIZATION



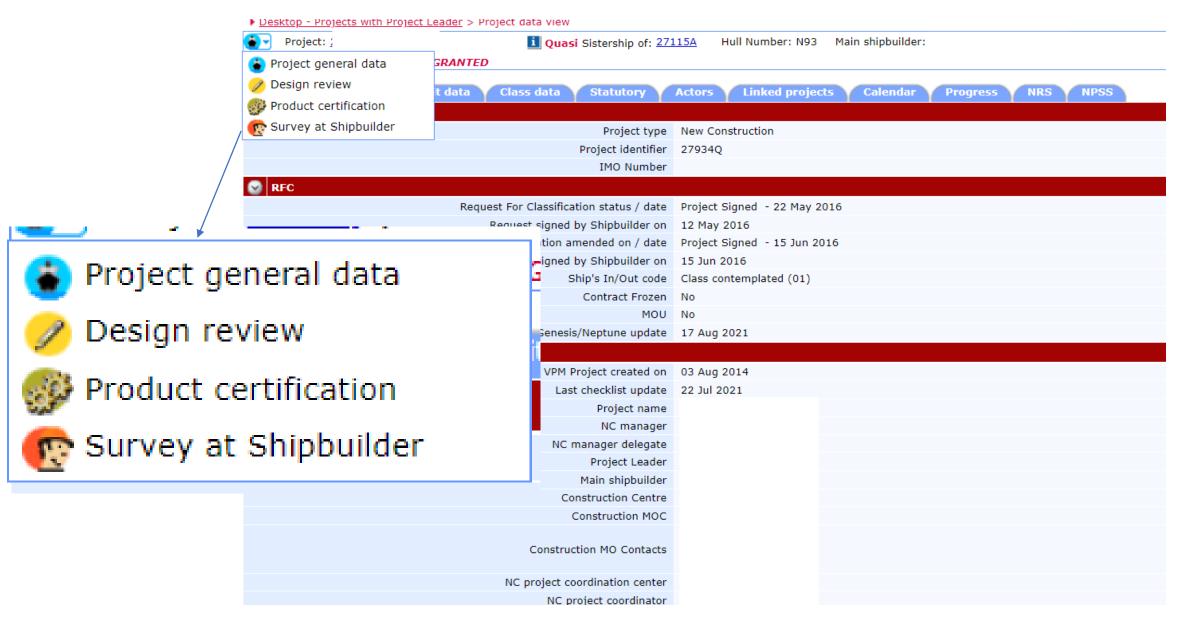
STAKEHOLDERS



WORKFLOW DURING DESIGN AND CONSTRUCTION PHASE USING VPM



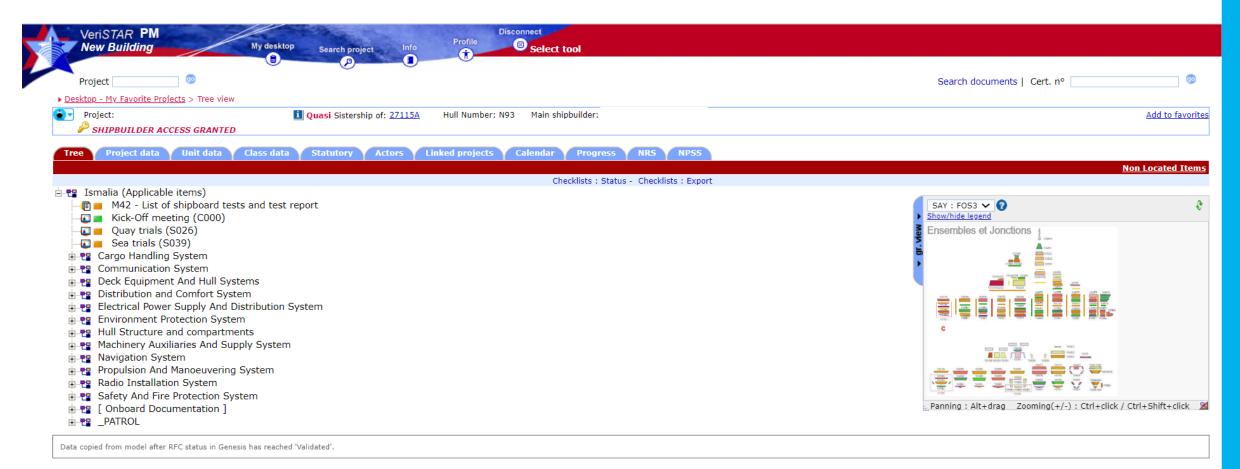
VPM STRUCTURE



VPM STRUCTURE

| Project general data | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| 🥟 Design review | |
| Product certification | |
| 😨 Survey at Shipbuilder | |
| Desktop - My Favorite Projects > Project data view | |
| Project: Description Descripti Description Description Description Description Description | Add to favorites |
| Tree Project data Unit data Class data Statutory Actors Linked projects Calendar Progress NRS NPSS | Historic |
| Project: ; I Quasi Sistership of: 27115A Hull Number: N93 Main shipbuilder: Project: ; Project: ; Project: ; Project: ; Project: ; | Add to favorites |
| Tree General Drawings / Comments Checklist Documents Correspondences | Search drawings Search comments |
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| | Search certificates Search comments |
| Export all product certification folders for shipbuilder Export all certificates (as filtered) Certificates - (no filter) | Display by Certificate 🗸 |
| Desktop - My Favorite Projects > Say tree view Project: I Quasi Sistership of: 27115A Hull Number: N93 Main shipbuilder: | Add to favorites |
| SHIPBUILDER ACCESS GRANTED | Search comments Export Progress report |
| Tree View - (no filter) | Export Patrol Plan Guidelines check list for initial survey 👽 |

ITEM TEST PLAN



The tree created in VPM use marks & notations and applicable regulations. Created to follow up of drawing/document review, inspection, comment results of review/ inspections, test plan, quality documentation.

DRAWING/DOCUMENT REVIEW

| Project: | Favorite Projects > Drav | | | | | | Searc | ch documents Cert. nº | |
|-------------------|--------------------------|--------------------------------------------|--------------------------|---------------------------------------------------|-------------|------------------|----------------------------------|------------------------------------------|-------------------------------|
| | | wings | | | | | | | |
| POWNER | | | ber: 2255 Main shipbuild | ler. | | | | | Add to |
| | R & SHIPBUILDER AC | CESS GRANTED | | Last RFC amendment on 25 Mar 2019 | | | | | |
| | | | | | | | | | |
| Tree Gen | neral Drawings / | Comments Checklist Docu | uments Corresponden | ces | | | | Add drawing Search | i drawings Search o |
| Expected | Posted Summa | ry Drawings Comments | Linked projects | | | | | Subfile H - Hull | |
| rawings - (no | filter) 🎱 | | | | | | | Multiselect Print / Exp | ort <u>Create corresp</u> e |
| | | | | | | | | (58 records) Page : 1 | on 2 💁 📢 1 |
| <u>Subfile</u> Bo | ox <u>No. Applica</u> | ant desc. [#] <u>Drawing nbr.</u> | Rev. | Title | CAD | Pending comm. | Stamp | + <u>Approval</u> ^ド 。 Date | |
|]н 1 | . 1 | CF10310 | C LIST OF DRAW | INGS FOR APPROVAL | ľà | 0 | 0 (?) Class | 13 Mar 2020 | |
| Н 1 | 15 | PB30310 | - TRIM & STABII | ITY BOOKLET (PRELIMINARY) | Dec 1 | 0 | 01 (01) Class / - (02) Statutory | 27 Jul 2018 | |
| Н 1 | 2 | DB00510 | - ANCHOR HAND | LING & MOORING ARRANGEMENT | De la | 0 | 02 Class | 18 Jul 2018 | |
|] н 1 | 2 5 | PB10110 | - GENERAL ARR | ANGEMENT(PRELIMINARY) | D. | 0 | 0 (0) Class | 27 Jul 2018 | |
| Н 1 | 3 | PB30510 | - EQUIPMENT N | JMBER CALCULATION | De la | 0 | 01 Class | 03 Aug 2018 | |
| Н 1 | 4 | SF01130 | A STERN FRAME | | DX . | 0 | 01 Class | 27 Nov 2018 | |
| Н 1 | 5 | SF01220 | A RUDDER CONS | TRUCTION | L Dec | 0 | 01b Class | 27 Nov 2018 | |
| Н 1 | 6 | SF01230 | A RUDDER STOC | K/I Electronic drawing | D X | 0 | 01 Class | 27 Nov 2018 | |
| Н 1 | 7 | DF00970 | A DETAIL OF HU | available for download | De la | 0 | 01 Class | 02 Apr 2019 | |
| H 1 | 8 F | AF18210 | - ARRANGEMEN | & DETAIL OF DOOR/WINDOW(INCLODING WIPER) | | 0 | 01 (01b) Class | 25 Oct 2018 | |
| 1 | 8 S | PF30301 | - TRIM & STABIL | ITY CALCULATION(PROVISIONAL) | D. | 0 | (?) | | |
| н 1 | 8 | SF09120 | B STRUCTURAL I | DETAIL FOR HULL | L DC | 0 | 01 Class | 16 Apr 2019 | |
| H 1 | 9 | DF38110 | - STEEL OUTFIT | TING ARRANGEMENT FOR DECK-HOUSE | | 0 | 02 Class | 29 Oct 2018 | |
|]н 1 | 10 | DF38120 | - RADAR & SIGN | AL MAST | <u> </u> | 0 | 0 Class | 22 Oct 2018 | |
| H 1 | | SB00710 | A SHELL EXPANS | ION | <u>~</u> bx | 0 | 01b Class | 08 Jan 2019 | |
| H 1 | 12 | SF05110 | C CARGO HOLD | CONSTRUCTION(MID/AFT) | D X | 1 | 01b Class | 06 Sep 2019 | |
| H 1 | 13 F | DF38150 | - ARRANGEMEN | OF LIFE BOAT HANDLING(INCLUDING PROVISION CRANE) | Dir 🛛 | 0 | 01b (01b) Class | 17 Jan 2019 | |
| H 1 | | Drawing status | | CONSTRUCTION(FORE) | DX . | 1 | 01b Class | 06 Sep 2019 | |
| H 1 | 14 | | C AFT END CONS | | Dix . | 1 | 01b Class | 11 Sep 2019 | |
| Н 1 | | | | CONSTRUCTION(MAGH. SPACE CONSTRUCTION LOWER,1/2) | DX . | 0 | 01 Class | 06 Sep 2019 | |
| Н 1 | | SF02111 | | CONSTRUCTION(MACH. SPACE CONSTRUCTION UPPER, 2/2) | Dec . | 1 | 01b Class | 06 Sep 2019 | |
| H 1 | | SF07110 | C FORE END CO | | Dir I | 1 | 01b Class | 11 Sep 2019 | |
| Н 1 | | SF08110 | | ONSTRUCTION(INCL. E/CASING & FUNNEL) | DX . | 0 | 01b Class | 20 May 2019 | |
| H 1 | | DF35110 | | RRANGEMENT IN COFFERDAM | DX . | 0 | 01 Class | 11 Jan 2019 | |
| H 1 | 20 | DF36310 | | RRANGEMENT ON UPPER DECK | 2 | 0 | 01 Class | 11 Jan 2019 | |

Drawings

Review to be validated

Reviewed with pending comments

Reviewed without pending comment

□ Reviewed only for information
✓ Not last

Deadline passed and still not reviewed

Drawing processed by several subfiles

WFI→ Waiting For Information (To be validated) WFI Waiting For Information Instant access to all comments related to each drawing • Check status • Easily answer

FOLLOW UP OF COMMENTS DRAWING REVIEW

| New Sublem Note with the full state into the sublements Note with the ful | NU SOTAD DM | | Disconnect | | | |
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| Approval Date 06 Sep 2019 Surveyor in charge M. Choo (Level 1 or trainee) Input made M. Choo Sold | Document Type | 3 - Drawing | | | Sent to HO | No |
| Input made M. Choo Posted by U. Interface Shi (SAMSUNG HEAVY INDUSTRIES C) on 02 Sep 2019 Registered by BV PUSAN on 04 Sep 2019 Statistation update: 06 Sep 2019 Imput made Imput made< | Approval Stamp | 01b Class | | | Action | for review |
| Input made M. Choo Registration in Registration of Sep 2019 e-Drawing Image: Scale Format Image: Scale Format e-Drawing to be stamped Image: Scale Format Image: Scale Image: Scale e-Drawing reviewed Image: Scale Format Image: Scale Image: Scale e-Drawing reviewed Image: Scale Image: Scale Image: Scale Image: Scale e-Drawing reviewed Image: Scale Image: Scale Image: Scale Image: Scale e-Drawing reviewed Image: Scale Image: Scale Image: Scale Image: Scale e-Drawing reviewed Image: Scale Image: Scale Image: Scale Image: Scale grame: Scale Image: Scale Image: Scale Image: Scale Image: Scale grame: Scale Image: Scale Image: Scale Image: Scale Image: Scale grame: Scale Image: Scale Image: Scale Image: Scale Image: Scale grame: Scale Image: Scale Image: Scale Image: Scale Image: Scale grame: Scale Image: Scale Image: Scale Image: Scale Image: Scale grame: Scale Image: Scale Image: Scale Image: Scale Image: Scale gra | Approval Date | 06 Sep 2019 | | | Surveyor in charge | M. Choo (Level 1 or trainee) |
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| Comments | | | | | | | All subfiles 📃 | Display all detail |
|------------|-----|------------|----------------------------------------------------|--------------------|---------------|------------|-------------------|--------------------|
| <u>ID</u> | 0 0 | Last Event | <u>Title</u> | Туре | <u>Status</u> | Created on | Valid on | Cleared on 🤟 |
| LPO1463286 | 16 | 5 May 2019 | Under reinforcements for permanent mooring equipme | To be re-submitted | Pending - Ans | 1 | <u>- B C-P1 C</u> | ٩ |
| | | | | | | | | |
| LPO1463283 | 08 | 8 May 2019 | 3D Hold FEA Results (No.4) | To be re-submitted | Cleared | 2 | ± ₿ | <u>B</u> |
| LPO1463284 | 08 | 8 May 2019 | Deterministic fatigue analysis(No.4) : LNGC mode | To be re-submitted | Cleared | ± | <u>_ B</u> | <u>B</u> |
| LPO1463285 | 08 | 8 May 2019 | Spectral fatigue analysis (FSRU mode) | To be re-submitted | Cleared | 1 | <u>2</u> B | <u>B</u> |
| LPO1463287 | 13 | 3 Jun 2019 | Under reinforcements for normal towing and mooring | To be re-submitted | Cleared | 1 | <u>= B</u> | <u>B</u> |
| LPO1463288 | 08 | 8 May 2019 | Permissible SWBM and SWSF | To be re-submitted | Cleared | 2 | ± ₿ | B |
| LPO1463289 | 08 | 8 May 2019 | See drawing(Rev) | To be re-submitted | Cleared | 2 | ± B | B |

Comments result of review

FOLLOW UP OF DRAWINGS/DOCUMENTS

| | | | | | | | | Туре | | |
|---------------|------------|-------------------------------------------------------------------|-------------|-----------------|----------------------|----------------------------------|----------------|------------------------------------------------------------------|-----------------|----|
| Tree G | eneral D | rawings / Comments Checklist Documents Correspondences | | | | | | | | |
| Categories by | | (filtered) | | | 1 | Export checklis | t Subfile Al | 1 | | ~ |
| | | Status of category Open O Closed Any | | | | ow only applicat | le 🔽 H | - Hull | | |
| | | Drawings received All None Partly | | | | Reviewed | | Machinery Electricity & Automat | tion | |
| | | Category code | | | | Category nan | ne F | - Fire & Safety | | |
| | | Statutory certificate | | | Additio | onal class notation | | - Cargo - Stability | | |
| | Crea | ated for operation 🔟 🗸 🗸 | | | | | 0 | - Offshore | | |
| | | | Apply Reset | | | | | CS - French Central Sa MC - Refrigerating | rety Commission | on |
| | | | | | | (258 | | F - Tonnage & Freeboar | d | |
| Subfile | Code | Category name | Applicable | Auto/ manual | Drawings received | Number o drawings received | f | | | |
| н | | | | | | | COMMIN | ent comment | | |
| | HQ | Plans for the Hull | Yes | auto | None | ۲ | 0 0 | 0 | Open | 0 |
| | <u>H1</u> | General arrangement | Yes | auto | None | ۲ | 0 0 | 0 | Open | 6 |
| | <u>H2</u> | Midship section | Yes | auto | None | ۲ | 0 | 0 | Open | 6 |
| | <u>H3</u> | Details of equipment - Anchors and chain cables | Yes | auto | None | ۲ | 0 | 0 | Open | 6 |
| | H4 | Decks and profiles | Yes | auto | None | ۲ | 0 0 | 0 | Open | 6 |
| | <u>H5</u> | Transverse sections | Yes | auto | None | ۲ | 0 0 | 0 | Open | 6 |
| | <u>H6</u> | Transverse bulkheads | Yes | auto | None | ۲ | 0 0 | 0 | Open | 6 |
| | HZ | Details of structural discontinuities | Yes | auto | None | ۲ | 0 0 | 0 | Open | 6 |
| | HS | Deep tank and ballast tank bulkheads, wash bulkheads - Bilge keel | Yes | auto | None | ی ک | 0 0 | 0 | Open | 6 |
| | <u>H9</u> | SHELL EXPANSION | Yes | manual | Partly | ه ۱ | 1 | 0 | Open | 0 |
| | HQ | Shell expansion | Yes | auto | None | ۲ | 0 0 | 0 | Open | 0 |
| | <u>H10</u> | Double bottom | Yes | auto | None | ٠ | | - | Open | 0 |
| | H11 | Machinery space structures | Yes | auto | None | ٥ | - | | Open | 0 |
| | <u>H12</u> | Foundations of propulsion machinery and boilers | Yes | auto | None | ٠ | | - | Open | 0 |
| | H13 | Superstructures and deckhouses | Yes | auto | None | ٥ | 0 0 | | Open | 0 |
| | <u>H14</u> | Fore part structure | Yes | auto | None | ٠ | | 0 | Open | 0 |
| | H15 | Aft part structure - Sternframe or stempost, sterntube | Yes | auto | None | ٠ | 0 0 | 0 | Open | 0 |

MATERIAL AND EQUIPMENT CERTIFICATE

| VeriSTAR PM New Building | My desktop Search project Info | Profile Select tool | | |
|----------------------------------------|--------------------------------|------------------------------------|-----------------------------|--------------|
| Project 💿 | | | Search documents Cert. n° | 90 |
| Desktop - My Favorite Projects > Produ | ct certification view | | | |
| Project: | Quasi Sistership of: | Hull Number: N93 Main shipbuilder: | Add t | to favorites |
| P SHIPBUILDER ACCESS GRAN | TED | | | |

Search certificates | Search comments

| | product certification folders for shipbuilder E :- (no filter) 🎱 | xport all certificat | i <u>es (as filtered)</u> | Display by Ce | ertificate |
|------|-----------------------------------------------------------------------|-----------------------------------|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| ates | - (no inter) | | | (402 records) Page : 1 0n 9 👁 🔳 1 2 3 | <u>456</u> |
| | Nature of expected document - <u>To be checked by</u> e " | <u>Certificate N°</u> - Status | • <u>Generic product</u> ⁽ | | Purchase Order N° |
| | Refer to Rules / NR266 | (Created) | PROPELLER | Propulsion And Manoeuvering System / Propulsor / Screw Propeller System / CONTROLLABLE PITCH PROPELLER | |
| | Refer to Rules / NR266 | (Created) | PROPELLER | Propulsion And Manoeuvering System / Manoeuvering System / Transverse Tunnel Thruster System / THRUSTER for transverse tunnel thruster system / PROPELLER for tranverse tunnel thruster | |
| | Refer to Rules / NR266 | (Created) | PROPELLER BLADE | Propulsion And Manoeuvering System / Propulsor / Screw Propeller System / CONTROLLABLE PITCH PROPELLER / PROPELLER BLADE | |
| | Refer to Rules / NR266 | (Created) | PROPELLER BOSS | Propulsion And Manoeuvering System / Propulsor / Screw Propeller System / CONTROLLABLE PITCH PROPELLER / PROPELLER BOSS | |
| | Refer to Rules / NR266 | (Created) | PROPELLER SHAFT LINER | Propulsion And Manoeuvering System / Propulsion Mechanical Transmission System / Shafting System / PROPELLER SHAFT / PROPELLER SHAFT LINER | |
| | Refer to Rules / NR266 | (Created) | PUMP | Machinery Auxiliaries And Supply System / Bilge And Ballast System (Machinery Spaces) / BALLAST PUMP | |
| | Refer to Rules / NR266 | (Created) | PUMP | Machinery Auxiliaries And Supply System / Bilge And Ballast System (Machinery Spaces) / BILGE PUMP | |
| | Refer to Rules / NR266 | (Created) | PUMP | Safety And Fire Protection System / Fire Fighting System / Fixed pressure water-spraying fire extinguishing system / EMERGENCY FIRE PUMP | |
| | Refer to Rules / NR266 | (Created) | PUMP | Machinery Auxiliaries And Supply System / Refrigerating Machinery / BRINE PUMP | |
| | Refer to Rules / NR266 | (Created) | PUMP | Cargo Handling System / Cargo Refrigeration And Heating System / Cargo Refrigerating System / BRINE PUMP | |
| | Refer to Rules / NR266 | (Created) | PUMP | Cargo Handling System / Cargo Refrigeration And Heating System / Cargo Refrigerating System / Cargo Refrigerating Piping / CIRCULATING PUMP | |
| | Refer to Rules / NR266 | (Created) | PUMP | Machinery Auxiliaries And Supply System / Refrigerating Machinery / CONDENSER / CIRCULATING PUMP | |
| | Refer to Rules / NR266 | (Created) | PUMP | Machinery Auxiliaries And Supply System / Anti-Heeling System / ANTI-HEELING PUMP | |
| | Refer to Rules / NR266 | (Created) | PUMP | Deck Equipment And Hull Systems / Bilge System (Spaces other than Machinery Spaces) / BILGE PUMP | |
| | Refer to Rules / NR266 | (Created) | PUMP | Deck Equipment And Hull Systems / Ballast System (Spaces other than Machinery spaces) / BALLAST PUMP | |
| | Refer to Rules / NR266 | (Created) | PUMP | Machinery Auxiliaries And Supply System / Cooling Water System (Sea water & fresh water) / Sea Water / SEA WATER PUMP | |
| | Refer to Rules / NR266 | (Created) | PUMP | Machinery Auxiliaries And Supply System / Cooling Water System (Sea water & fresh water) / Fresh Water / FRESH WATER PUMP | |
| | | (created) | | | 1 |

Certification of material certification under process

Detail of each certification

Follow up comments for LPO surveyor, certificate surveyor and Surveyor at yard

FOLLOW UP OF COMMENTS SURVEYS

| Tree Interventions Surv | veys Comments | BV record of construction Shipbuilder documents BV documents | | |
|----------------------------------|---------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------|----------------------------------------|
| ist of survey(s) - (no filter) 俗 | | | | Export excel Print Rep |
| | Attending | | (368 records) Page : 1 | on 25 💽 📢 1 <u>2 3 4 5 6 7</u> |
| <u>Location</u> | <u>Date</u> | * <u>Status</u> - <u>Survey Item</u> - <u>Sort by type</u> | | <u>Show survey details Show commen</u> |
| Naval 2011 🔶 | 18 Jun 2022 | 😨 🕳 230V 60HZ UNINTERRUPTED POWER SUPPLY NETWORK -TEST PROCEDURE 32010 | [📵 🗸] | |
|] Naval 2011 → | 30 Dec 2021 | 😨 🕳 440V 60 HZ MAIN SWITCH BOARD TEST PROCEDURE | [🌒 🖡] | |
| Compartments → | 13 Apr 2022 | 😨 🕳 Air Leak Test for Block 1 | [👰 🖡] | |
| | | SAY318222 - Air Leak Test for Block 1 (Cleared) Author : M. SALAH ELDIN - To be dealt with 1 Last event date : 07 Aug 2022 | [()] +] | |
| Compartments -> | 05 Apr 2022 | Leakage out of tolerance found, Test to be repeated after rectification | | |
| Compartments → | 24 May 2022 | Pair Leak Test for Block 2 Fr 9 to 16 | [] | |
| | | 😰 🕳 Air Leak Test for Block 3 | [()] 🖡] | |
| Compartments 🔶 | 07 Mar 2022 | 😨 🕳 Air Leak Test for Block 31M | [🗍 🕂] | |
| Compartments -> | 15 May 2022 | 😨 🕳 Air Leak Test for Block 4 | [🔃 🗐 🖡] | |
| Compartments 🔶 | 10 Mar 2022 | 😨 🕳 Air Leak Test for Block 4 FR 33 to 40.5 | [🕅 🖡] | |
| Compartments 🔶 | 30 Apr 2022 | 😨 🕳 Air Leak Test for Block 5 | [🌒 🖡] | |
| Compartments 🔶 | 01 Jun 2022 | 😨 🕳 Air Leak Test for Block 6 | [👰 🖡] | |
| Compartments 🔶 | 14 Mar 2022 | 😨 🕳 Air Leak Test for Block 7 | [📵 🗸] | |
| Compartments 🔶 | 21 Mar 2022 | 😨 🕳 Air Leak Test for Block & FR 72 to 82 | [👰 🖡] | |
| Compartments 🔶 | 20 Feb 2022 | 😨 🕳 Ar Leak Test for Block 8 Z000170 | [()] =] | |
| Compartments 🔶 | 20 Feb 2022 | 😨 🕳 Air Leak Test for Block 9 | [@ ∔] | |
| Bilge and ballast piping → | 01 Feb 2022 | 😨 🧫 Ballast System piping (52990) seal Test 1 | [() +] | |
| | | Print Report Print Report Records of survey | (368 records) Page : 1 | on 25 👁 📢 1 <u>2 3 4 5 6 7</u> |

CONSTRUCTION SCHEDULE

| Tree Project data Unit data Class data Stat | utory Actors Linked | d projects Calendar Progress NRS | NPSS | |
|---------------------------------------------|------------------------------------------|----------------------------------|------------------------------------------------------------------------|--------------------------------------------------|
| | | | | <u>Edit</u> |
| Contractual Dates | | | | |
| Steel Cutting | 01 Sep 2021 | | | |
| Keel Laying | 10 Mar 2022 | | | |
| Launching | 09 Sep 2022 | | | |
| | 03 Mar 2023 | | | |
| Forecast Dates | | | | |
| Steel Cutting | 01/09/2021 | | | |
| Keel Laying | 10/03/2022 | | | |
| Launching | 09/09/2022 🔅 🗰 | | | |
| Sea Trial | 2 | Not applicable | | |
| Delivery | 03/03/2023 🕀 🗰 | | | |
| Actual Dates | | | | |
| Steel Cutting | 01/09/2021 | | | |
| Keel Laying | 20 a 🗱 🗱 | | | |
| Launching | | | | |
| Sea Trial | 1. I I I I I I I I I I I I I I I I I I I | | Attending Surveyor(s) (Ctrl+Click to select/deselect several users) | D. Titkov A. Huang W. Yang S. Skoblykov |
| Delivery | | | | |
| Comment | | 1 | | |
| | | Save Cancel | | |

NEW CONSTRUCTION OVERVIEW BY COUNTRY

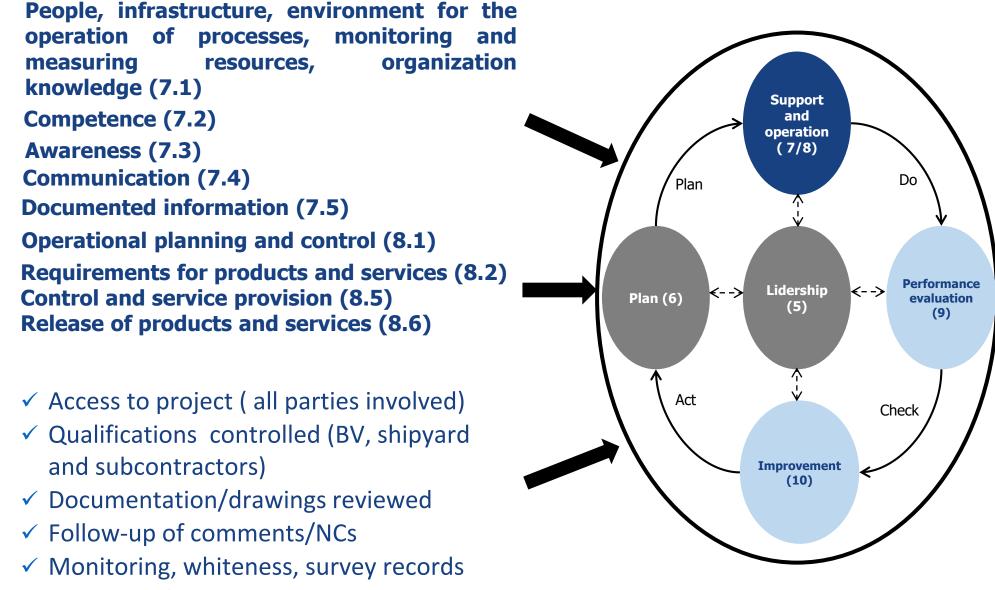
Internal NC Process to ensure compliance with class and statutory requirements from Quality point of view

| | VeriSTAR Project Management | My desktop Search proj | ect | Info Profile | e Disconnect B Select tool | | | | | | | |
|------------|------------------------------------------|--------------------------------------------------------|---------|----------------------|-------------------------------|------------|-----------------------|--------------|------------------------------|----------------------------|-------------------|------------------------|
| | Project 💿 | | | | | | | | Search | documents Cert. nº | , | go |
| _ | Desktop - Projects without Project Leade | | iments | Reports Recei | ved Drawings | | | Co | nment library Search drawi | ng <u>Search comment</u> | Create project | <u>Set default tab</u> |
| | | Projects with Project Leader | | NPSS requests | | | | | | | | |
| Lis | st of project(s) - 🍸 (filtered) 🚭 | | | | | | | | | | | Export excel |
| | Country / Geographical Area | COLOMBIA | ~ | | | | Steel cutting | >= | | <= | | |
| | Project Status | | | | | | First RFC Status date | >= | | <= | ÷: | |
| | SOLAS appliance | COMOROS CONGO | | | | | | | | | | |
| | | CONGO (D.R.) | | | | Apply | | | | | | |
| | | COOK ISLANDS COSTA RICA COTE D'IVOIRE CROATIA | | | | | | | | (0 records) Pag | | |
| <u>Sta</u> | atus <u>RFC Status Date</u> | CUBA | | <u>ı Shipbuilder</u> | Hull Numb | <u>ber</u> | Service notation | <u>Owner</u> | | ⊬ <u>BV Cen</u> | itre <u>Actio</u> | <u>on</u> |
| Shov | w/hide_legend | CURAÇÃO CYPRUS CZECH REPUBLIC DENMARK | | | | | | | | (0 records) Pag | je : 0 on 0 👁 |) ◀ ₀ ▶ |

| itatus ^k P | <u>roject ID</u> | <u>Project</u> Leader | <u>Main Shi</u> p | builder | [⊬] <u>Owner</u> | ⊭ Steel [⊬] cutting | Keel [⊬] laying | Launching ^{k-} | Sea [⊭] trial Delivery | <u>C1 C2 C</u> | <u>.3 C4 C5</u> | <u>C6</u> <u>C7</u> <u>C8</u> | B C9 C10 | <u>C11</u> C12 | <u>C13</u> <u>C14</u> <u>C1</u> | 5 <u>C16</u> <u>C17</u> | Z PSG Nb. | PSW |
|-----------------------|------------------|--------------------------|------------------------------------------|---------------------------------------|---------------------------|---------------------------------|-----------------------------|-------------------------|------------------------------------|----------------|-----------------|-------------------------------|-----------|----------------|---------------------------------|-------------------------|--------------|-----|
| Project Registered | <u>43984L</u> | P. Arabadzhiev | 🔑 <u>Daew</u> | OO SHIPBUILDING & MAR | | 31 Jan 2024 | 31 Jul 2024 | | 30 Jun 2025 | | | | | | | | 0 | 0 |
| Project Registered | 433695 | H. Lee | P HYUN | DAI HEAVY INDUSTRIES | | 16 Oct 2023 | 26 Mar 2024 | 14 Jun 2024 | 20 Jan 2025 | | | | | | | | 0 | 0 |
| Project Registered | <u>43370T</u> | H. Lee | P HYUN | DAI HEAVY INDUSTRIES | | 27 Nov 2023 | 07 May 2024 | 26 Jul 2024 | 04 Mar 2025 | ; | | | | | | | 0 | 0 |
| Project Registered | 4 <u>3371U</u> | H. Lee | P HYUN | DAI SAMHO HEAVY INDUS | | 16 Feb 2024 | 01 Jul 2024 | 27 Sep 2024 | 21 Apr 2025 | | | | | | | | 0 | 0 |
| Project Registered | 4 <u>3372V</u> | H. Lee | s an | | | | | | | | | | | | | | | |
| Project Registered | 43106G | J. Kwon | <i>p</i> | | | | | | | | | | | | | | | |
| Project Registered | <u>43107H</u> | J. Kwon | 19 A. | | | | | | | | | | | | | | | |
| Project Registered | <u>43108J</u> | J. Kwon | 19 C | C1 : Checklist ha | | | | | | | | | | | | | | |
| Project Registered | <u>43109K</u> | J. Kwon | 19 C | C2 : Concerned | | | has been r | nodified an | d checklist has | not bee | en upda | ted. | | | | | | |
| Project Registered | 43110L | J. Kwon | 19 C | C3 : Provisional C4 : Provisional | | | o(c) missin | | | | | | | | | | | |
| Project Registered | 43111M | J. Kwon | 2 | C5 : Steel cuttin | | | | | s) not assigned | (*) for | compo | site proj | ects: sta | art of la | mination | | | |
| Project Registered 🧯 | 25342X | K. Lesnov | 2 | C6 : Steel cuttin | | | | | | | | | | | | on | | |
| Project Registered 🧯 | <u>29229X</u> | K. Lesnov | 2 | C7 : Kick-off me | | | | | | | | | | | | | | |
| Project Registered | 40568X | K. Woo | 2 | C8 : Review of W | /elding* procedu | ires specificat | ion and WP | QR* not re | ecorded. (*) fo | r compos | site pro | jects: Bo | onding p | rocedur | e | | | |
| Project Registered | 40569Y | K. Woo | 19 C | C9 : Review of N | | | | | | | | | | | | | | |
| Project Registered | 40570A | K. Woo | 2 | C10 : Delivery w | | | | | | | file. | | | | | | | |
| Project Registered | 40571B | K. Woo | 1990 - Carlos | C11 : Sea trial w C12 : Shipbuilde | | | | | | | ildor Pr | nort Ma | andor | | | | | |
| Project Registered | <u>44294X</u> | N. Mamykin | 2 | C12 : Shipbulde C13 : Exists pen | | | | | | | | eport mai | lager. | | | | | |
| Project Registered | <u>44295Y</u> | N. Mamykin | 100 C | C14 : Shipbuilde | | | | | | | | nal Laur | nchina, s | Sea trial | and Delive | rv dates | . | |
| Project Registered | 44296A | N. Mamykin | 2 | C15 : NRS has n | | | | | , | | | | | | | ., | | |
| | | | | C16 : Patrol plan | | or reviewed ar | | | | | | | | | | | | |

USE OF IT TOOL DURING CONSTUCTION

Quality Management Systems



✓ Item test plan



Context of

the

CLASSIFICATION CERTIFICATE ISSUANCE AT DELIVERY

Profile

A

Disconnect Select tool



VeriSTAR PM

Ship in Service

Desktop - My Favorite Projects > Certificates

Project

90

| Project: | DER ACCESS GRANTED | Main shipbuilder: 🌏 |
|---------------------|-------------------------------|-----------------------------------------------------------------------|
| | | |
| Status V Repor | ts Certificates | |
| Active certificates | Group | Name |
| Гуре CLASS | Certificate of Classification | Certificate of Classification |
| STATUTORY | Load-Line | International Load Line Certificate |
| STATUTORY | Safety Equipment | Five-yearly Attestation of Periodic Servicing of Launching Appliances |
| STATUTORY | Safety Equipment | Lifeboat/Tender Certificate 1 (Multiple) |
| STATUTORY | Safety Equipment | Lifeboat/Tender Certificate 2 (Multiple) |
| STATUTORY | Safety Equipment | Lifeboat/Tender Certificate 3 (Multiple) |
| STATUTORY | Safety Equipment | Attestation of test of means of embarkation / disembarkation |
| STATUTORY | Safety Equipment | Attestation of test of means of embarkation / disembarkation |
| STATUTORY | Safety Equipment | Attestation of test of means of embarkation / disembarkation |
| STATUTORY | Safety Equipment | Attestation of test of means of embarkation / disembarkation |
| STATUTORY | Marpol Annex VI - SEEMP | CII - SEEMP Part III Confirmation of Compliance |
| STATUTORY | Marpol Annex VI - SEEMP | Confirmation Of Compliance - SEEMP_PartII |
| STATUTORY | Passenger Safety | Document of Approval of Alternative design and Arrangements |
| STATUTORY | Passenger Safety | Passenger Ship Safety Certificate & Form P |
| STATUTORY | Passenger Safety | Limitations on Operation |
| STATUTORY | Passenger Safety | Lifeboat/Tender Certificate |
| STATUTORY | Marpol Annex I - Oil | IOPP Certificate and Form A |
| STATUTORY | Marpol Annex IV - Sewage | ISPP Certificate |
| STATUTORY | Marpol Annex V - Garbage | Garbage Pollution Prevention Statement of Compliance |
| STATUTORY | Marpol Annex VI - Air | IAPP Certificate |
| STATUTORY | Marpol Annex VI - IEE | IEE Certificate (Definitive) |
| STATUTORY | Ballast Water Management | International BWM Certificate |
| STATUTORY | Anti-Fouling System | International AFS Certificate (IMO) |
| STATUTORY | Cargo Gear | Attestation of Cargo Gear Survey |
| | · · | |

Search project

D.

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A.



VERITAS INTERNATIONAL CLASSIFICATION SOCIETY PROVISIONAL CERTIFICATE OF CLASSIFICATION

Nr CAG0/NLI/20221102142329

| MSC | WORLD EUROPA |
|------------|--------------------------|
| Ship's Nan | ie . |
| Malta | |
| Flag | |
| COMPA | NIA NAVIERA WORLD 1 S.A. |
| Owners | |

32764Q Register Nr VALLETTA Port of Registry

The above named ship has been surveyed at Saint-Nazaire, on 24 October 2022 Further to the surveys, a report is sent to the Head Office of Bureau Veritas proposing to grant the classification symbols and notations

> I @ HULL @ MACH Passenger ship dualfuel (LNG) SRTP Unrestricted navigation

⊕ AUT-CCS, ⊕ AUT-PORT, ⊕ SYS-NEQ, ⊕ REF-STORE COMF-NOISE-Pax 1, COMF-NOISE-Crew 2, COMF-VIB-Pax 1PK, COMF-VIB-Crew 2PK, BWT, CLEANSHIP, AWT-A/B, NDO-2 days, NOX-25.00%, ERS-S, INWATERSURVEY, SDS, MON-SHAFT, URN - controlled vessel

This document is issued within the scope of Bureau Veritas Marine & Offshore General Conditions.

At Cagliari, ITALY Limit date of validity (maximum 6 months from the date of issuance) on 02 November 2022 24 April 2023

The hull of the ship is surveyed under normal survey system The machinery of the ship is surveyed under normal survey system

BUREAU VERITAS MARINE & OFFSHORE Nicola LICCIARDI



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By Order of the Secretary

not a party to the contract pursuant to which this ce ng out of errors or omissions which may be contained in said certificate, or for errors of judgment, fault or neglige ciety or of its Agents in the establishment or issuance of this certificate, and in connection with any activities which it may pro-

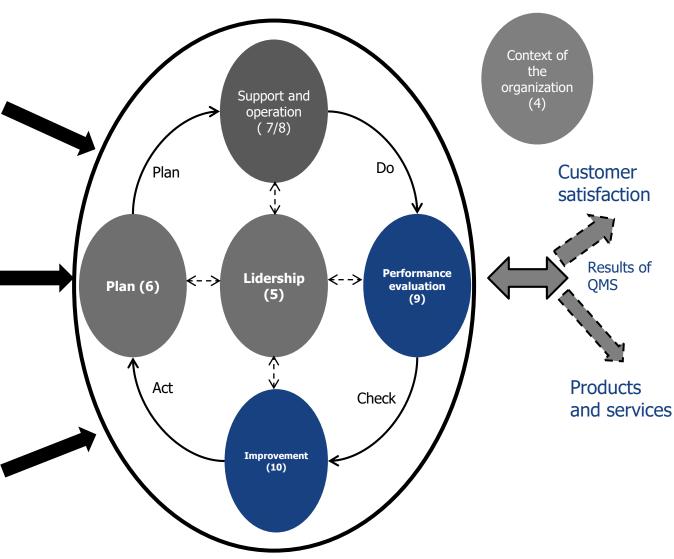
USE OF IT TOOL DURING CONSTUCTION

Quality Management Systems

Monitoring, measurement, analysis and evaluation (9.1) Internal audit (9.2) Management review (9.3)

- ✓ Customer satisfaction
- ✓ Internal and external Audits
- ✓ Evaluation during vessels in service
- Continuous improvement (Updates of regulations, procedures, implementation of new IT tools)

| What | Who | When | Where | How |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| ship designers, engineering companies, marrine equipment manufacturers, ship yards ship owners, charterers, ship management companies | Local sales person Local Marine manager Local Surveyor/auditor Sales and Marketing Management (DCM) M&O HO LC&R_STAT | Permanently Complaints Appeals Satisfaction surveys Management review | At local level + HO level as necessary At HO Level | Local procedures Local customer satisfaction M&O procedures procedure MPG_0017 MPG_0018 |
| National Administrations and European Commission underwriter, cargo interest or the public at large | Local Marine manager Local Surveyor/auditor M&O HO LC&R_STAT | Permanently Request Appeals Management review | At local level + HO level as necessary At HO Level | |





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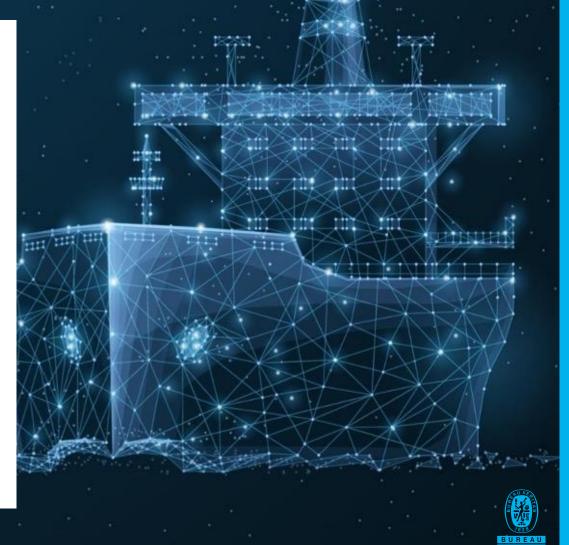
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To be delivered in 2023

All stakeholders can connect and access data

Linked directly to clients' systems and equipment for real time updates



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