

# novel class

**CORPORATE PRESENTATION – JUNE 2018**

In a fast changing business environment, where Technological Developments and International Requirements are pressing for constant progress and upgrade of the Standards in the Marine, Offshore and Onshore Industries, the ability of a Classification Society to adapt and evolve is of vital importance.

**NOVEL CLASSIFICATION SOCIETY S.A. (novelClass)** is established based on the solid foundations set by the collective experience of the Marine Industry and the Standards set out in the “Code for Recognized Organizations (RO Code)”, with regards to the Technical Capabilities and proper function of Classification Societies.

**novelClass** is a New yet Experienced Classification Society.

**New** in terms of its existence as a legal entity...

**Experienced**, because of its People...

**novelClass IS its People...**

The Technical Staff of the Society -from Top Management to the last member of our Technical Staff- have been engaged in providing Ship Classification and Certification, Marine Consultancy, Offshore and Onshore Industrial Services for many years.

The Technical background and expertise of each and every member of the **novelClass** Technical Staff as well as their collective experience, contribute to the Society's overall level of knowledge, know-how and experience, thus leading to significantly enhanced technical capabilities.

**NOVEL CLASSIFICATION SOCIETY S.A. (novelClass)** is an Independent Non-Governmental Organization, established on the 13<sup>th</sup> day of June 2014 and registered in Belize.

**novelClass** is a new Classification Society, the philosophy and organization of which are 'built' on up-to-date existing Technical know-how on the overall range of its activities and staffed with professional and highly experienced personnel. Its world Technical Head Office is based in Limassol, Cyprus.

As a Classification Society / Recognized Organization, **novelClass** aims at Protecting Life, the Marine Environment and Property through the quality services offered by its staff.

The scope of the company is to provide independent, unbiased and technically sound classification services and statutory certification and services on behalf of its authorizing Flag States, through its worldwide network of Surveyors / Auditors and Engineers.

BELIZE CITY, BELIZE

THE INTERNATIONAL BUSINESS COMPANIES ACT  
Chapter 270 of the Laws of Belize, Revised Edition 2000

Certificate of Incorporation

*The undersigned, Registrar of International Business Companies, HEREBY  
CERTIFIES, pursuant to Section 14(3) of The International Business Companies Act, that  
all the requirements of said Act in respect of incorporation have been complied with.*

NOVEL CLASSIFICATION SOCIETY S.A. No. 146,348

*is incorporated in Belize City, Belize as an International Business Company  
this 13th day of June, two thousand fourteen*

*G I V E N under my hand and Seal in Belize City, Belize.*



*Santiago Gonzalez*  
DEPUTY REGISTRAR OF INTERNATIONAL  
BUSINESS COMPANIES

**Ship Classification & Certification  
Marine Consultancy  
Offshore  
&  
On-Shore Industrial  
Quality Services**

**Our Solid Commitment:**

**To Enhance Safety of Life, Property  
and  
Protect the Environment**

**novelClass** provides a wide Range of Services to the Marine, Offshore and Onshore Industries.

## **novelClass provided services encompass of:**

- Classification services
- Statutory certification and services on behalf of authorizing Flag States
- Technical services related to classification and certification

The classification activities of **novelClass** include the application of Rules, Standards and Guidelines for the Design, Construction, Operational Maintenance of vessels and marine related structures and the subsequent verification to these standards.

Statutory certification and services activities are performed on behalf of Flag Administrations that fully / partially authorize **novelClass** to act on their behalf.

**novelClass** acts as a Recognized Organization, authorized to perform Statutory Inspections on behalf of Flag Administrations.

Currently, novelClass is authorized to perform Statutory Inspections on behalf of the Flag Administration of Belize (IMMARBE), Palau, Tanzania Moldova and Dominica (DMRI).

The novelClass QMS was audited not only against the applicable requirements for ROs in 2014, but additionally against the R.O. Code requirements, well before their entry into force in 2015.

novelClass takes pride to be the first non-IACS Society that has managed to successfully undergo both an ISO 9001:2008 Audit and a Flag Administration Audit (by IMMARBE), verifying its ability to meet the RO Code requirements, well before the entry into force of the new Code.



**novelClass** aims at offering high Quality Services throughout the range of its activities. To achieve that, the following considerations were taken into account and formed the basis on which **novelClass** was built:

### **Quality Management System**

**Designed and Developed to fully comply with:**

**The ISO 9001:2008 International Standard**

**The RO Code requirements (well before entry into force of the new Code)**

### **Optimal Organizational Structure**

**Designed and Developed as dictated by the latest developments in the Marine, Offshore and Onshore Industries**

### **Enhanced Technical Services**

**Provided through a new Network of professional and experienced Surveyors, trained specifically to meet the Society's Quality objectives and goals. Supported by the Society's Technical Head Office and the experience and know-how of all Departments.**

The very definition of Novel is New, Original, Innovative...

Originality is the core of our philosophy. **novelClass** is not yet another Non-IACS Classification Society in the Market. **novelClass** is a Classification Society aiming to bridge the ever-growing gap between IACS and Non-IACS Classification Societies.

The way to do this, has been dictated by the technological developments, the market trends and the international requirements. The tool to plan this has been provided by the IMO: The R.O. Code...

**novelClass**'s QMS has been designed and developed to not only be in compliance with ISO 9001:2008 standard, but to additionally –voluntary– fully comply with the “Code for Recognized Organizations (RO Code)” requirements –well before its entry into force–, in a quest for even higher quality of services.

**novelClass** is engaged with inspection, survey / audit and certification of ships for compliance with classification rules and the international conventions on safety at sea and prevention of marine pollution.

Above process includes the development and implementation of a Quality Management System (QMS) to demonstrate **novelClass's** ability to consistently provide services that meet customer and applicable regulatory requirements, and to address customer satisfaction with a focus on continual improvement of the QMS effectiveness within the requirements of ISO 9001:2008 and the "Code for Recognized Organizations (RO Code)", as well as other customer and statutory or regulatory requirements applicable to **novelClass**.

**novelClass's** QMS has been designed and developed to be in compliance with ISO 9001:2008 standard and has been further updated and revised as necessary, so as to additionally fully comply with the "Code for Recognized Organizations (RO Code)" requirements.

**novelClass's** QMS, is subject to periodical assessment and certification in accordance with the applicable international quality standards by a qualified body, having the necessary means to carry out its duties effectively and to the highest professional standards, safeguarding the independence of the persons performing them.

**novelClass's** strategic goal was to proceed with voluntary Verification of Compliance of its revised Quality Management System against the requirements of the new RO Code (entering into force on January 01<sup>st</sup> 2015) within 2014, in order to demonstrate its QMS compliance with the more strict RO Code requirements. This goal was achieved, since the QMS was audited by IMMARBE and found satisfactory, thus enabling authorization of novelClass to act as an RO on behalf of Belize Flag.



Mr. Chris Socratous CEO of novelClass awarded the ISO 9001:2008 Certification of the Society, by the Minister of Finance of the Republic of Cyprus.

novelclass ISO System was updated to the ISO 9001:2015.

New ISO 9001: 2015 was issued.



THE INTERNATIONAL CERTIFICATION NETWORK

## CERTIFICATE

Cyprus Certification Company

has issued an IQNet recognized certificate that the organization:

**NOVEL CLASSIFICATION SOCIETY S.A.**

223, Chr. Hadjipavlou Street, Hawaii Royal Gardens Court, 8th Floor, 3036 Limassol, Cyprus

has implemented and maintains a

Quality Management System  
for the following scope:

**Ships classification and statutory services in accordance with classification rules, international maritime conventions and flag state requirements.**

which fulfils the requirements of the following standard:

**CYS EN ISO 9001:2015**

Issued on: **27/04/2018**

First issued on: **04/09/2014**

Expires on: **03/09/2020**

This attestation is directly linked to the IQNet Partner's original certificate and shall not be used as a stand-alone document

Registration Number: **cy.qs.1.14.046**



Alex Stoichitoiu  
President of IQNet

Vassos Vassiliou  
Director of Certification



**IQNet Partners\*:**

AENOR Spain AFNOR Certification France APCER Portugal CCC Cyprus CISO Italy  
CQC China CQM China CQS Czech Republic Cro Cert Croatia DQS Holding GmbH Germany FCAV Brazil  
FONDONORMA Venezuela ICONTEC Colombia Inspecta Sertifointi Oy Finland INTECO Costa Rica  
IRAM Argentina JQA Japan KFQ Korea MIRTEC Greece MSZT Hungary Nemko AS Norway NSAI Ireland  
NYCE-SIGE Mexico PCBC Poland Quality Austria Austria RR Russia SII Israel SIQ Slovenia  
SIRIM QAS International Malaysia SQS Switzerland SRAC Romania TEST St Petersburg Russia TSE Turkey YUQS Serbia  
IQNet is represented in the USA by: AFNOR Certification, CISO, DQS Holding GmbH and NSAI Inc.

\* The list of IQNet partners is valid at the time of issue of this certificate. Updated information is available under [www.iqnet-certification.com](http://www.iqnet-certification.com)



ΚΥΠΡΙΑΚΗ ΕΤΑΙΡΕΙΑ ΠΙΣΤΟΠΟΙΗΣΗΣ  
CYPRUS CERTIFICATION COMPANY

QUALITY SYSTEM  
CERTIFICATE OF CONFORMITY

No. QS.1.14.046

The Cyprus Certification Company certifies that the Quality System of the Enterprise:

**NOVEL CLASSIFICATION SOCIETY S.A.**

concerning the following activities:

**Ships classification and statutory services in accordance with classification rules, international maritime conventions and flag state requirements.**

carried out at the following locations:

223, Chr. Hadjipavlou Street, Hawaii Royal Gardens Court, 8th Floor, 3036 Limassol, Cyprus.

has been assessed and found to be in conformity with the requirements of the Standard:

**CYS EN ISO 9001:2015**

The present certificate is granted in accordance to the CCC General Rules and Procedures for the Assessment and Certification of Quality Systems, is ruled by the terms of the relevant contract between CCC and the enterprise and is valid until : **03/09/2020**

Nicosia, **27/04/2018**

Vassos Vassiliou  
Director of Certification

Initial Issue: **04/09/2014**



Πιστοποίηση Σ.Δ.  
Αρ. Πρωτ. 282



A/A	Type of Survey / Approval	SCOPE				
		Interim	Initial	Renewal	Annual / Periodical / Intermediate	Approval / Amendments
1	International Load Line (ILL)		X	X	X	
2	Cargo Ship Safety Construction (CSSC)		X	X	X	
3	Cargo Ship Safety Equipment (CSSE)		X	X	X	
4	Cargo Ship Safety Radio (CSSR)		X	X	X	
5	Cargo Ship Safety (CSS)		X	X	X	
6	International Oil Pollution Prevention (IOPP)		X	X	X	
7	International Sewage Pollution Prevention (ISPP)		X	X		
8	International Garbage Pollution Prevention (IGPP)		X	X		
9	International Air Pollution Prevention (IAPP)		X	X	X	
10	International Energy Efficiency (IEE)		X	X		
11	International Anti-Fouling Systems (IAFS)		X	X		
12	International Maritime Solid Bulk Cargoes (IMSBC) Survey		X	X	X	
13	International Maritime Dangerous Goods (IMDG)		X	X	X	
14	Maritime Labour Inspection	X	X	X	X	
15	International Safety Management (ISM) Code Audits	X	X	X	X	
16	International Ship and Port facilities Security (ISPS) Verification	X	X	X	X	
17	Certificate of Inspection of Crew Accommodations (CICA)					
18	Ballast water Management (BWM) Survey		X	X	X	
19	Pleasure Vessel Safety (PVS) Survey		X	X		
20	Trim & Stability Booklet					X
21	Loading Manual Booklet					X
22	Loading Instrument					X
23	Grain Loading Manual					X
24	Cargo Securing Mauna					X
25	Shipboard Oil Pollution Emergency Plan Procedure					X
26	Ship Energy Efficiency Management Plan Procedure					X
27	Ship Security Plan					X
28	BWMP					X



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CHIEF EXECUTIVE OFFICER

Quality  
Manager

Quality  
Officer

Survey  
Department

Engineering  
Department

Training,  
Research &  
Development  
Department

Control &  
Monitoring of  
vessels  
performance

Marketing &  
Human  
Administration  
Department

Accounting  
Department

**novelClass** personnel performing and responsible for statutory certification and services possess the minimum formal Academic Qualifications / formal education and proficiency in English language, as required by the RO Code.

Other personnel assisting in the performance of statutory work have education, training and supervision commensurate with the tasks they are authorized to perform.

Relevant **novelClass** Procedure on Competence, Training and Awareness provides the necessary qualifications of Technical personnel, including the continuous updating of their knowledge as appropriate to the tasks they are authorized to undertake.

This Procedure defines the requirements for Training and Qualification of the **novelClass** Technical Staff.

**novelClass** Technical Head Office, which is responsible for the management of the Organization's overall activities, is based in Limassol, Cyprus.

An International network of Surveyors / Auditors support the operations of **novelClass** worldwide.

The **novelClass** worldwide Technical Staff consists mainly of highly qualified Naval Architects, Mechanical and Marine Engineers, Chief and Second Engineers, other Technical personnel as well as Masters and Chief Officers.

The systematic Training for continuous self improvement is one of the main factors that will guarantee that **novelClass** Technical staff will distinguish for their knowledge and professionalism.

**novelClass** also takes into consideration and actively works towards the need of contributing to the Continuous Professional Development and Qualifications upgrade of its Support Staff. At present, almost all Head Office Support Staff has undergone Internal ISO 9001:2008 Training, in an attempt to enhance Quality in all of the Society's activities.

**novelClass** has established Initial Professional Development and Continuous Professional Development Training Plans for its Technical Staff (including Field Surveyors/Auditors), in accordance with the requirements set out in the RO Code, and is currently in the implementation phase of such Training Plans.

These Training Plans include the following Categories of Training Modules:

- General Modules (NCS-TR-GM1 – NCS-TR-GM6)**
- Special Class Modules (NCS-TR-SCM1 – NCS-TR-SCM3)**
- Special Statutory Modules (NCS-TR-SSM1 – NCS-TR-SSM16)**

**novelClass** Training Modules are structured so as to include information related to:

Learning and Competence Objectives, Trainee Entry Requirements, Scope of Training, Theoretical and Practical Training Requirements, Theoretical and Practical Training Evaluation Criteria and Pass Requirements, Qualification and authorization to work independently, Assessment of Training Effectiveness, Maintenance of Qualification, Activity Monitoring, Records

Office	Location	Technical / Support Staff
<b>novelClass</b> Head Office	Limassol, Cyprus	Field Surveyors / Auditors Technical Appraisal Staff Support Staff
Representation	Piraeus, Greece	Field Surveyors / Auditors
Representation	Varna, Bulgaria	Field Surveyor / Auditor
Representation	Tallinn, Estonia	Field Surveyor / Auditor
Representation	Istanbul, Turkey	Field Surveyor / Auditor
Representation	Novorossiysk, Russia	Field Surveyor / Auditor
Representation	Valencia, Spain	Field Surveyor / Auditor
Representation	Tartus, Syria	Field Surveyors / Auditors
Representation	Dubai, UAE	Field Surveyor / Auditor
Representation	Dalian, China	Field Surveyor / Auditor
Representation	Koper, Slovenia	Field Surveyor / Auditor
Representation	Alexandria, Egypt	Field Surveyors / Auditors
Representation	Busan, Korea	Field Surveyor / Auditor



Office	Location	Technical / Support Staff
Representation	Odessa, Ukraine	Field Surveyor / Auditor
Representation	USA- New Orleans	Field Surveyor / Auditor

**novelClass**  
NOVELCLASS

**Survey Department**

**Your Needs**

**Our Concern**

**novelClass**  
NOVELCLASS

**The Partner you can rely on**

**novelClass** has established and published its Rules, based on existing technical knowledge, knowhow and experience.

Through an Agreement, CBS “Rules for the Classification and Construction of Sea-Going Ships” formed the basis for the development of the **novelClass** Rules, while the IACS Guidelines and Requirements were taken into consideration to further enhance the technical level.

## **Rules for the Classification and Construction of Sea-Going Ships:**

**Part 0:** General Survey Regulations

**Part 1:** Classification Regulations

**Part 2:** Hull

**Part 3:** Hull Equipment

**Part 4:** Stability and Subdivision

**Part 5:** Fire Protection

**Part 6:** Machinery Installations and Refrigerating Plants

**Part 7:** Machinery, Boilers and Pressure Vessels

**Part 8:** Electrical Equipment and Automation

**Part 9:** Materials and Welding

**Part 10:** Offshore Terminals

**novelClass** follows a strict policy on providing high Quality Technical Services, in line with its Technical Capacity and expertise. As a result, the Top Management has taken the strategic decision to restrict the Society's range of provided services, to a specific range of ship types and ship sizes, were it considers its performance to be of high quality.

Subject to that policy, the first edition of the **novelClass** "Rules for the Classification and Construction of Sea-Going Ships" **does not include** provisions for the following ship types:

- Passenger Ships
- Oil Tankers
- Chemical Tankers
- LNG Carriers
- LPG Carriers
- Ships of over 200m in Length

As part of the Agreement for Cooperation, CBS additionally provided guidance on the establishment of an effective procedure that will enable the systematic maintenance of the **novelClass** Rules and Regulations, for the design, construction and certification of ships and their associated essential engineering systems.

The Procedure has been developed and will be implemented, for administering the formulation, review and issuance of new Rules including changes to the existing ones (covering the overall process from Initial Rule Development / Change / Replacement Proposals, to the final approval of proposed Rule Development / Change / Replacement by the Society's Technical Committee, as required).

**Rule Development / Change / Replacement Proposals are subject to:**

- .1 Internal Department Review / Evaluation.
- .2 Internal Organization Review / Evaluation.
- .3 Marine Industry Review / Evaluation (if deemed necessary).
- .4 Final Review and Evaluation for Approval by the Society's Technical Committee.

The composition of the **novelClass** Technical Committee is always such as to include a representative sample of experts / interested parties from the Marine Industry, Academics, Class Personnel and Flag Administrations.

The role of the Technical Committee is to consider any technical problems connected with the Society's Rules, proposed alterations in the existing Rules and to frame new Rules for Classification as deemed necessary. The Technical Committee has power to accept or reject Rules relating to Classification (or revisions of these), judging whether they are fit for purpose.

**novelClass** maintains an up-to-date version of its Rules in the English language.

**novelClass** has developed its own software “Ships Management System”, with the use of which is able to effectively monitor all of its activities: from Class and Statutory Surveys status to PSC performance for each **novelClass** vessel.

Moreover the **novelClass** “Ships Management System” provides **novelClass** Head Office with the ability to effectively instruct, monitor and evaluate the performance of its Surveyors / Auditors and Plan Approval Staff (Engineers) with reference to the findings of PSC Inspections onboard **novelClass** vessels.

In addition to the “Ships Management System” **novelClass** Head Office maintains appropriate records for all of its ships, in controlled conditions. Records for **novelClass** ships are maintained in accordance with the RO Code requirements.



**novelClass**

**Engineering Department**

**Choose Knowledge, Choose Experience**

**Choose CLASS**

The **novelClass** Engineering Department, is responsible for performing Technical Appraisals / Plan Approvals (with the use of appropriate Naval Architecture Software where necessary) as well as for providing Technical Consultancy and Technical Support to **novelClass** Clients.

SOFTWARE	MANUFACTURER	APPLICATION
<b>AutoCAD</b>	Autodesk, Inc.	2 Dimensional & 3 Dimensional Computer Aided Design
<b>HECSALV</b>	Herbert-ABS Software Solutions LLC	<b><u>-Computer Ship Modelling</u></b> <b><u>-Stability Calculations</u></b> Intact Stability Calculations, Damage Stability Calculations <b><u>-Strength Calculations</u></b> Section Modulous, Ultimate Strength Module <b><u>-Other Functions</u></b> Tonnage Calculations, Sounding / Ullage Generation, Towing Analysis, Salvage Response / ERS
<b>Custom Excel Spreadsheets</b>	novelClass	Computer aided Calculations for various Technical Studies

The existence of an active Engineering Department, staffed with highly qualified personnel and supported with sufficient resources, is of key essence to the overall performance of any Classification Society.

The **novelClass** Engineering Department is staffed with experienced Naval Architects, Mechanical and Marine Engineers, the professionalism and experience of which guarantee that the Department can play a significant role in meeting the Society's set goals and objectives.

The high level of Technical expertise and know-how of the **novelClass** Engineering Department are evident, through the Engineering work and projects undertaken by our team of Naval Architects, Mechanical and Marine Engineers:

HECSALV Ship Project Editor 7.8.0.12 - \\DATASTORE\data\ENGINEERING SUBDIVISION\ERS\MC GROUP\MT A. MICHEL\HECSALV\MT A MICHEL rev08 - FINAL.shp - [Contents of]

File View Ship Geometry Loads Tables Eval Tools Validate Window Help

MT A. MICHEL/Loads/Tanks by Group

MT A. MICHEL

- Particulars
- References
- Ship Properties
- Geometry
  - Hull
    - Bulkheads/Decks
    - Generation Tables
    - Compartments by Group
    - Appended Compartments
  - Loads
    - Lightship
    - Tanks by Group
      - Unassigned
      - Liquified Gas
      - Cargo Oil
      - Fuel Oil
      - Diesel Oil
      - Lube Oil
      - Fresh Water
      - SW Ballast
      - Misc. Tanks
      - Constant
    - Bulk Cargo by Group
    - Container Cargo by Group
    - Misc Weights by Group
  - Tables
  - Evaluation Criteria
  - Recycle Bin

* Name	Color	Capacity			Center			Free Surface Inertia				Last Updated
		Volume m <sup>3</sup>	Density MT/m <sup>3</sup>	Weight MT	LCG m-AP	VCG m-BL	TCG m-CL	Slack m <sup>4</sup>	98%Full m <sup>4</sup>	Slack m-MT	98%Full m-MT	
Unassigned		0.000	0.0000	0	50.600F	0.000	0.000	...	...	...	...	16/06/2014 14:52:07
Liquified G		0.000	0.0000	0	50.600F	0.000	0.000	...	...	...	...	16/06/2014 14:52:07
Cargo Oil		7 187.586	1.0000	0	56.996F	5.301	0.002P	4 225	4 026	4 225	4 026	16/06/2014 14:52:07
Fuel Oil		467.260	0.9400	0	20.815F	6.985	0.000	104	60	98	56	16/06/2014 14:52:07
Diesel Oil		80.080	0.8700	0	20.896F	0.872	0.000	374	67	325	58	16/06/2014 14:52:07
Lube Oil		37.170	0.9000	0	11.763F	0.847	0.003P	12	7	11	6	16/06/2014 14:52:07
Fresh Water		700.350	1.0000	0	45.552F	4.249	0.046S	3 868	723	3 868	723	16/06/2014 14:52:07
SW Ballast		2 088.780	1.0250	0	61.619F	3.205	0.000	170	46	174	47	16/06/2014 14:52:07
Misc. Tank		0.000	0.0000	0	50.600F	0.000	0.000	...	...	...	...	16/06/2014 14:52:07
Constant		54.770	1.0000	0	18.619F	8.362	0.000	...	...	...	...	16/06/2014 14:52:07

HECSALV DamStab 7.8.0.12 - \\DATASTORE\data\ENGINEERING SUBDIVISION\VER\MC GROUP\MT A. MICHEL\HECSALV\MT A MICHEL rev08 - FINAL.shp

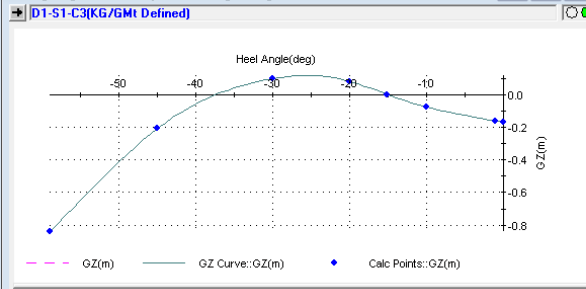
Project Definitions Summary Results Detailed Results Tools Windows Help



Compartment Status Entry -

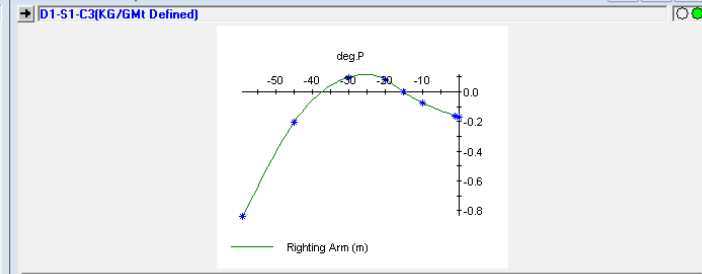
No.	Compartment	1				
		Perm. Source	Value	Density Source	Value	
				MT/m <sup>3</sup>	% Full Intact	
1	FPT C	Model	1.0568	Model	1.0000	50.0
2	MOTOR ROOM	Model	1.0000	Model	1.0000	50.0
3	BP ROOM upper 148-151 P	Model	1.0000	Model	1.0000	50.0
4	ENGINE ROOM	Model	1.0000	Model	1.0000	50.0
5	PAINT STORE	Model	1.0000	Model	1.0000	50.0
6	CHAIN LOCKER LOWER S	Model	1.0000	Model	1.0000	50.0
7	CHAIN LOCKER LOWER P	Model	1.0000	Model	1.0000	50.0
8	No.1 T/C FWT C	Model	0.9992	Model	1.0000	50.0
9	No.1 CDT S	Model	0.9869	Model	1.0000	50.0
10	No.1 BWT S	Model	0.9846	Model	1.0250	50.0
11	No.1 CDT P	Model	0.9875	Model	1.0000	50.0
12	No.1 BWT P	Model	0.9791	Model	1.0250	50.0
13	No.2 BWT S	Model	0.9980	Model	1.0250	50.0
14	No.2 BWT P	Model	1.0047	Model	1.0250	50.0
15	No.2 CDT S	Model	0.9756	Model	1.0000	50.0
16	No.2 CDT P	Model	0.9767	Model	1.0000	50.0
17	No.3 BWT S	Model	0.9668	Model	1.0250	50.0
18	No.3 BWT P	Model	0.9733	Model	1.0250	50.0
19	No.3 CDT S	Model	0.9884	Model	1.0000	50.0
20	No.3 CDT P	Model	0.9887	Model	1.0000	50.0
21	No.4 BWT S	Model	0.9641	Model	1.0250	50.0
22	No.4 BWT P	Model	0.9707	Model	1.0250	50.0
23	No.4 CDT S	Model	0.9841	Model	1.0000	50.0
24	No.4 CDT P	Model	0.9852	Model	1.0000	50.0
25	No.2 T/C FWT C	Model	0.9870	Model	1.0000	50.0
26	No.5 BWT S	Model	0.9786	Model	1.0250	50.0
27	No.5 BWT P	Model	0.9786	Model	1.0250	50.0
28	No.5 CDT S	Model	0.9962	Model	1.0000	50.0

Righting Arm Summary Free-Floating Damaged - No Criteria



Parameter	Units	Available	Required
Static Heel Angle	deg	15.2	---
Freeboard to Margin Line	m	7.141	---
Freeboard to Downflooding	m	3.014	---
Angle at Maximum GZ	deg	25.5	---
Maximum GZ	m	0.116	---
Range of Positive GZ	deg	22.0	---
Initial GM	m	---	---
Area Under GZ Curve	m-rad	0.0292	---
Angle Limiting Area	deg	37.2	---
Angle to Downflooding (Unprotected)	deg	>MaxAngle	---
Critical DF comp (freeboard@equilibrium)		No.5 BWT P	---
DF point		5 WBT-2 P	---
Critical DF comp (angle unprotected)		---	---
DF point		---	---

Draft/GZ Summary

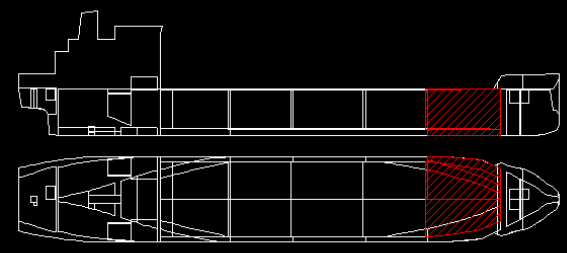
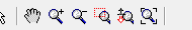


Angle (deg)	GZ (m)	Draft Aft (m)	Draft Fwd (m)	Flooded (MT)	CDisp (MT)	CTrim (m)	Iteration No.
0.0	-0.171	4.377	2.305	88	0.0	0.000A	4
1.0P	-0.163	4.382	2.296	85	0.0	0.000A	4
10.0P	-0.076	4.389	2.209	57	0.0	0.000F	3
15.2P	0.000	4.365	2.152	41	0.0	0.001F	2
20.0P	0.081	4.313	2.087	30	0.0	0.001F	3
30.0P	0.098	4.040	1.777	11	0.0	0.000F	4
45.0P	-0.207	2.990	0.692	0	0.0	0.000F	4
59.0P	-0.839	0.581	-1.285	0	0.0	0.001F	4

Disp. of Remaining Intact Hull: 3747 MT

Damage Case - 4:Case 4

Damage Case Display: 4:Case 4



Damage Case Display: 4:Case 4

Damaged Compartments:  
No.1 CDT S  
No.1 CDT P  
No.1 BWT P

HECSALV 7.8.0.12 - TestPlan for MT A. MICHEL (\\DATASTORE\data\ENGINEERING SUBDIVISION\ERS\MC GROUP\MT A. MICHEL\HECSALV\ERS DRILL 28-03-14.pln)

File Plan Condition Results Tools Window Help

TestPlan

- LIGHTSHIP CONDITION
- FULL LOAD CONDITION
- DRILL 28-03-14
- CONDITION AFTER COLLISION
- PROPOSED CORRECTIVE CONDITION

**Tankage and Cargo Entry**

**PROPOSED CORRECTIVE CONDITION**

Tank Name	Weight MT	% Full	Capacity MT	VCG m-BL	LCG m-AP	TCG m-CL	FSmom m-MT	Density MT/m3	Volume m3
No.1 BWT P	224	87.1	257	3.000	84.383F	5.025P	23	1.0250	218.537
No.1 BWT S	0	0.0	257	0.010	84.580F	5.025S	0	1.0250	0.000
No.2 BWT P	0	0.0	223	0.010	71.420F	5.725P	0	1.0250	0.000
No.2 BWT S	0	0.0	223	0.010	71.420F	5.725S	0	1.0250	0.000
No.3 BWT P	0	0.0	253	0.010	58.100F	5.762P	0	1.0250	0.000
No.3 BWT S	50	19.8	253	0.284	58.090F	5.762S	666	1.0250	48.780
No.4 BWT P	0	0.0	218	0.010	44.780F	5.754P	0	1.0250	0.000
No.4 BWT S	0	0.0	218	0.010	44.780F	5.754S	0	1.0250	0.000
No.5 BWT P	0	0.0	120	1.360	29.390F	7.580P	0	1.0250	0.000
No.5 BWT S	120	100.0	120	4.850	31.430F	7.580S	0	1.0250	116.650
<b>Totals</b>	<b>394</b>	<b>18.4</b>	<b>2141</b>	<b>3.217</b>	<b>64.956F</b>	<b>0.1755</b>	<b>689</b>	<b>1.0250</b>	<b>383.967</b>

Cargo Oil Fuel Oil Diesel Oil Lube Oil Fresh Water SW Ballast

Warning(s)

None

Spec. Grav. 1.0250

Draft AP 7.632 m

Draft FP 6.760 m

Dr. AllMark 7.632 m

Dr. FwdMark 6.760 m

Heel 15 deg

Trim 0.872A m

Prop Imm 196%

GMT 0.000 m

SF 1.082 m

1.0250 Allow

**Intact Trim and Stability Summary**

**PROPOSED CORRECTIVE CONDITION**

Item	Weight MT	VCG m	LCG m-AP	TCG m-CL	FSMom m-MT
Light Ship	2328	6.190	42.490F	0.000	---
Constant	54	8.347	18.748F	0.000	0
Cargo Oil	5978	5.259	58.016F	0.002P	3.985
Fuel Oil	395	6.731	20.717F	0.000P	1.35
Diesel Oil	55	0.743	21.071F	0.000	404
Lube Oil	0	---	---	---	---
Fresh Water	203	7.532	1.200F	0.058S	0
SW Ballast	394	3.217	64.956F	0.1755	689
Misc. Weights	0	---	---	---	---
<b>Displacement</b>	<b>9408</b>	<b>5.532</b>	<b>51.228F</b>	<b>0.008S</b>	<b>5.213</b>

**Stability Calculation**

KMT	7.184 m	LCF Draft	7.218 m
VCG	5.532 m	LCB (even keel)	52.136F m-AP
GMT (Solid)	1.653 m	LCF	48.586F m-AP
FSc	0.554 m	MT1cm	106 m-MT/cm
GMT (Corrected)	1.098 m	Trim	0.805 m-A
GMT Required	0.000 m	List	0S deg
GMT Margin	1.098 m	Propeller Immersion	195 %

(GM)

Specific Gravity 1.0250

Hull calcs from tables

Tank calcs from tables

**Drafts**

Draft at A.P.	7.605 m	Shear	232 MT at 4.800F m-AP
Draft at M.S.	7.202 m	Bending Moment	4.726H m-MT at 24.950F m-AP
Draft at F.P.	6.800 m	Shear % Allowable	12% at 4.800F m-AP
		Moment % Allowable	16% at 24.950F m-AP
Draft at All Marks	7.605 m		
Draft at Mid Marks	7.402 m		
Draft at Fwd Marks	6.800 m		

**Strength Calculations**

Draft at A.P.	7.605 m	Shear	232 MT at 4.800F m-AP
Draft at M.S.	7.202 m	Bending Moment	4.726H m-MT at 24.950F m-AP
Draft at F.P.	6.800 m	Shear % Allowable	12% at 4.800F m-AP
		Moment % Allowable	16% at 24.950F m-AP
Draft at All Marks	7.605 m		
Draft at Mid Marks	7.402 m		
Draft at Fwd Marks	6.800 m		

**Section View**

**PROPOSED CORRECTIVE CONDITION**

Sections looking forward - units (m-AP)

81.218F

**Strength Summary**

**PROPOSED CORRECTIVE CONDITION**

Name	Location m-AP	Weight MT	Buoyancy MT	Shear MT	SEA GOING % Shear Allowable	Shear Stress N/mm2	Wt. Moment m-MT	Buoy. Moment m-MT	Bending Moment m-MT	SEA GOING % Moment Allowable	Deck Stress N/mm2	Keel Stress N/mm2
1	4.800F	354	121	233	12	---	1161	356	805H	3	---	---
2	21.050F	1293	1128	165	5	23	13008	8986	4.021H	13	140	-103
3	24.950F	1629	1526	103	3	11	18775	14146	4.629H	15	130	-96
4	38.600F	3166	3140	25	1	1	50343	45756	4.586H	15	29	-21
<b>Mx</b>	43.391F	3732	3732	1	---	0	66891	62221	4.670H	---	22	-16
<b>MIDSHIP</b>	50.600F	4480	4617	-137	4	-2	96567	92321	4.247H	14	14	-10
5	50.950F	4513	4860	-147	4	-2	98141	93944	4.197H	14	14	-11
6	65.250F	6274	6383	-119	3	-3	175776	173010	2.767H	9	20	-15
7	77.800F	7598	7848	-251	8	-14	261857	261030	8.27H	3	11	-8
8	91.300F	9210	9131	78	4	20	383326	383474	146S	0	-9	7
9	95.800F	9302	9289	12	1	---	419416	419424	9S	0	---	---

**Values**      **Shear & Moment**      **% of Allowables**      **Stresses**

PROPOSED CORRECTIVE CONDITION results (Free-Floating Damaged) are current

AP (+Fwd) 101.20m      9.00m      16.80m      AutoUpdate On

Preparation of a Feasibility Study -including the necessary Barge Computer Model and Stability Calculations (with the use of a combination of AutoCAD and HECSALV Software and Custom Excel Spreadsheets)- for the safe loading, transport by sea and unloading of the 45m long / 170 Tonnes Trestles of the jetty at the under-construction oil storage terminal of VTTV at Vasiliko, Cyprus.

The jetty extends 1.2 km into open sea, will comprise of a total of 42 45m-long Trestles in total and is the first of its kind in Cyprus.

The screenshot shows the software interface for barge stability analysis. The main window displays a 3D wireframe model of a barge structure. Below the model, there are two data tables and two stability diagrams.

Name	Density MT/m <sup>3</sup>	Perm	IMO Type
No.1 W.B.	1.0250	1.000	Ither Liquid
No.2 W.B.	1.0250	1.000	Ither Liquid
No.3 W.B.	1.0250	1.000	Ither Liquid
No.4 W.B.	1.0250	1.000	Ither Liquid
No.5 W.B.	1.0250	1.000	Ither Liquid

The stability diagrams show the initial state 'INITIAL - PRIOR TO LOADING' and a specific step 'Step 72 - Trailer Rear Axle No.1 Long. Position: 40.00m from Barge's AB End'. The diagrams use color coding to represent different compartments and their stability contributions.



**When it comes down to dealing with the open Sea,  
knowledge and experience is not expensive...**

**It's priceless...**

**Can you really afford anything less?**

**Choose Knowledge, Choose Experience**

**CHOOSE CLASS**



novelClass is in position to offer a wide range of Offshore supporting services, as its personnel has been engaged and gained relevant experience in such services over the years:

**-Thorough Visual Examination and/or Load Test of Lifting Equipment and Lifting Appliances / Accessories**, in accordance with the LOLER and PUWER Regulations.

**-Thorough Visual Examination and/or Load Test / NDT of Offshore Containers and their associated Lifting Appliances/ Accessories**, in accordance with applicable requirements.

**-Non-Destructive Testing**, using the following methods:

**-Visual Inspection**

**-Liquid Penetrant Inspection**

**-Magnetic Particle Inspection**

**-Destructive Testing**, in cooperation with the Cyprus University of Technology (CUT) and appropriate facilities in the private Sector.

**-Inspections of Submarine Pipelines**

**-Inspections of Mooring Buoys**

**-Pre-Towing warranty survey**

**-Sea fastening Certification on Offshore vessels**

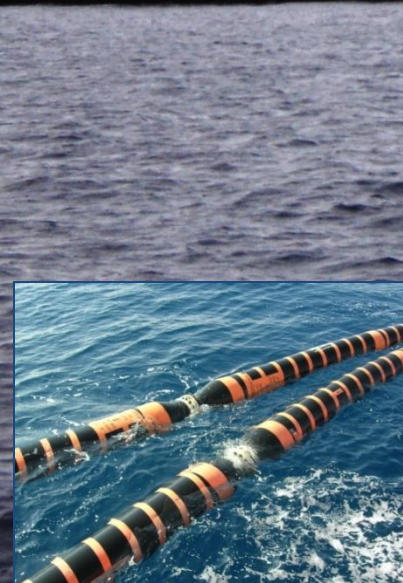
**-Other Offshore supporting services**, which fall under the Marine, Industrial and Engineering Range of provided Services.



Pictures from various Load Tests / Thorough visual examinations of Marine Lifting Equipment / Lifting Accessories – Offshore Containers

# novelClass

# Inspections of Submarine Pipelines





**Pictures from visit to Offshore Drilling Platform for carrying out NDT /  
Non Destructive Testing (Liquid Penetrant Inspection – Magnetic Particle Inspection)**

**novelClass**  
NOVELCLASS

**Training, Research &  
Development Department**

**OUR EXPERIENCE**  
**YOUR KNOWLEDGE**

**novelClass** recognises the need for Initial as well as Continuous Professional Development of its Technical and Support Staff. Towards this direction, **novelClass** has established a Training, Research and Development Department, with a scope of:

- a. Provide the required Training to the **novelClass** Surveyors / Auditors and Engineers, from Initial Professional Development to Continuous Professional Development, in full accordance with the requirements of the RO Code.
- b. Engage in Research and Development activities, which will contribute to the continuous technical upgrade and advancement and subsequently to the society's technical know-how and expertise.

**novelClass** has entered into a Cooperation Agreement with Cyprus Bureau of Shipping on Training, Research and Development activities.

Through this Cooperation, the **novelClass** Training, Research and Development Department had the chance to gain experience and develop its own procedures for Training, Research and Development activities.

**novelClass** personnel, in cooperation with Cyprus Bureau of Shipping, has already participated in all aspects (Training Courses Development, Organization and Technical and Support Staff participation) of the following six (6) successfully organised Training Courses within 2013 – 2014:

The Training, Research and Development Department has been established with a scope to enhance the Society's ability to closely monitor, interpret and adjust to any new Statutory Requirements, Market Requirements and Technological Developments, thus providing the Society with adequate research capability to ensure appropriate updating of the published criteria.

Furthermore, **novelClass** recognizes the need for development of mutually beneficial Cooperation with Academic Institutions, members of the Marine Industry, Flag Administrations, other Classification Societies and any other interested parties, in terms of Research and Development and exchange of technical know-how and expertise.

**novelClass** not only allows but seeks the active participation of the Flag States and other interested parties (through their representatives) in the development of its rules, procedures and / or regulations, specifically in the review process prior to finalization.



In order to ensure the effective and full function of its recently established Research and Development Department **novelClass** has appointed professional experienced Academic Staff, engaged in Research:

**-Manager of novelClass Training, Research and Development Department is a Senior Researcher, engaged in several research projects.**

Furthermore, **novelClass** has proceeded with signing Cooperation Agreements with respect to Training, Research and development with Academic Institutions, Organizations engaged in Research and other Organizations engaged in Research activities (other Classification Societies).

**Current Cooperation Agreements with respect to Training, Research and Development:**

- Cyprus Bureau of Shipping (CBS)
- Cyprus University of Technology (CUT)
- Bulgarian Ship Hydrodynamics Centre (BSHC)

## **Green House Gases (GHG) Emissions from Vessels Index**

EU has set a strategic target of establishing in the future mandatory monitoring and reporting procedures onboard vessels, for the determination of the quantity of CO<sub>2</sub> emissions from vessels.

An as precise as possible calculation of the actual quantity of CO<sub>2</sub> emissions from vessels within EU territorial waters would serve as the solid basis to built a complete and functional emissions reduction strategy, with logical targets and goals.

Towards this direction, **novelClass** has joined forces with a group of other organizations, in an attempt to design, develop and effectively implement an innovative tool for the continuous effective monitoring and determination of not only CO<sub>2</sub> but all Green House Gases emissions from vessels, within EU territorial waters.



**novelClass** Classed and/or Statutory Certified vessels, mainly operate within Paris MOU and Black Sea MOU Areas (Major MOUs), as well as in other minor MOUs (Mediterranean MOU).

**novelClass** aims at constantly improving its performance within the major PSC MOUs. As part of this policy, a Department solely engaged with the Control and Monitoring of Vessels Performance was established.

Head of the Department has been appointed a former Head of the Iceland PSC Authority.

Furthermore, **novelClass** has developed a procedure for enhancing its vessels' PSC performance, which comprises of:

**-Annual Statistical Analysis of all MOUs PSC Inspection results**

(including analysis per specific deficiency - code)

**-Preparation of Pre-Port Arrival PSC Inspections Checklist**

(based on the findings of the MOUs PSC Inspection results analysis)

**-Detention Prevention Inspections programme for novelClass ships**

A key-function of **novelClass**, is its vessels effective PSC performance monitoring.

In order to establish an effective system for preventing vessels detentions from PSC Inspections, **novelClass** Training, Research and Development Department in cooperation with the vessels performance monitoring department collected and analyzed the PSC Inspection results all MOUs regions, for the last three years.

Through a detailed **Annual Statistical Analysis of all MOUs PSC Inspection results** (including analysis per specific deficiency - code), **novelClass** has managed to identify, categorize and analyze the most common detainable deficiencies reported in the MOUs, and based on this Research results has developed a procedure for enhancing its vessels' PSC performance.

Further to the Annual Statistical analysis of all MOUs PSC Inspection results, the **novelClass** PSC Detention prevention procedure comprises of:

**-Preparation of Pre-Port Arrival PSC Inspections Checklist**

(based on the findings of all MOUs PSC Inspection results analysis)

**-Detention Prevention Inspections programme for novelClass ships**

We strongly believe that by providing high Quality Services throughout the range of our activities, **novelClass** is in position to gain a reputable position in the Market.

Our experienced Technical staff has been engaged in Services (Marine, Offshore and Onshore) that have been recognised and utilized by many Administrations, Organizations and Shipping and other Companies.

In **novelClass**, we consider that the Quality of our Services depends on the qualities of Our People. Our ability to provide such a wide range of Marine, Offshore and Onshore services through our experienced personnel, distinguishes **novelClass** from other Non-IACS ROs.

This combined know-how and experience, along with the strategic decision to work towards voluntary implementation of the requirements of the RO Code well before its entry into force, gives **novelClass** a valuable asset towards advancing into a new –and far more challenging- Marine, Offshore and Onshore Industry era.

Today, and after the actions taken for the effective implementation of the RO Code on a voluntary basis well before its entry into force, **novelClass** can take pride of being a unique modern and flexible Organization, built on solid foundations, established in accordance with the principles and in line with the technical Market demands, able to closely monitor, interpret and adjust to any new Market requirements and Technological Developments.

In the years to come, **novelClass** aims at offering its wider services to the Marine, Offshore and Onshore industries, with the purpose of effectively serving the needs and requirements of a fast changing business environment, in a truly globalised world economy, within its defined Mission:

**To Enhance Safety of Life, Property  
and  
Protect the Environment**

**Your Needs**

**Our Concern**

**novelclass**

**The Partner you can rely on**