



MANAGING RISK

DNV

Ο ρόλος του Επιθεωρητή (Νηογνώμονα)



Γιάννης Τσόλκας

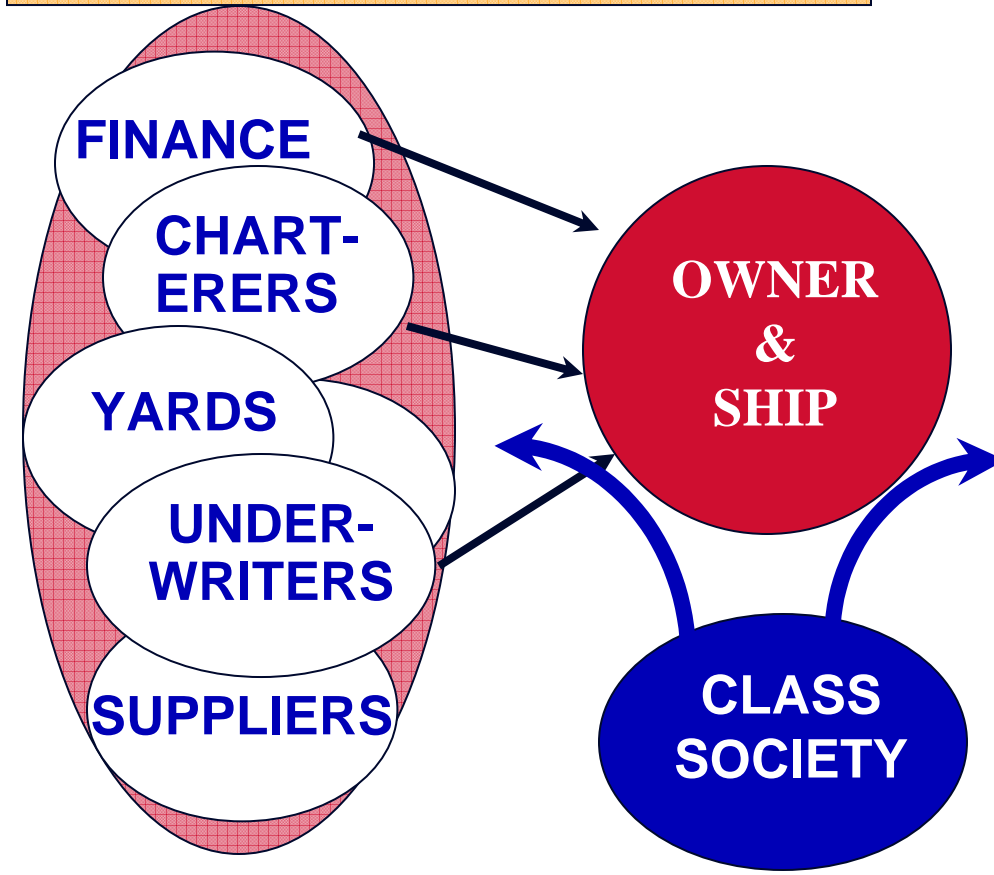
Det Norske Veritas

Ο ρόλος του Επιθεωρητή (Νηογνώμονα)

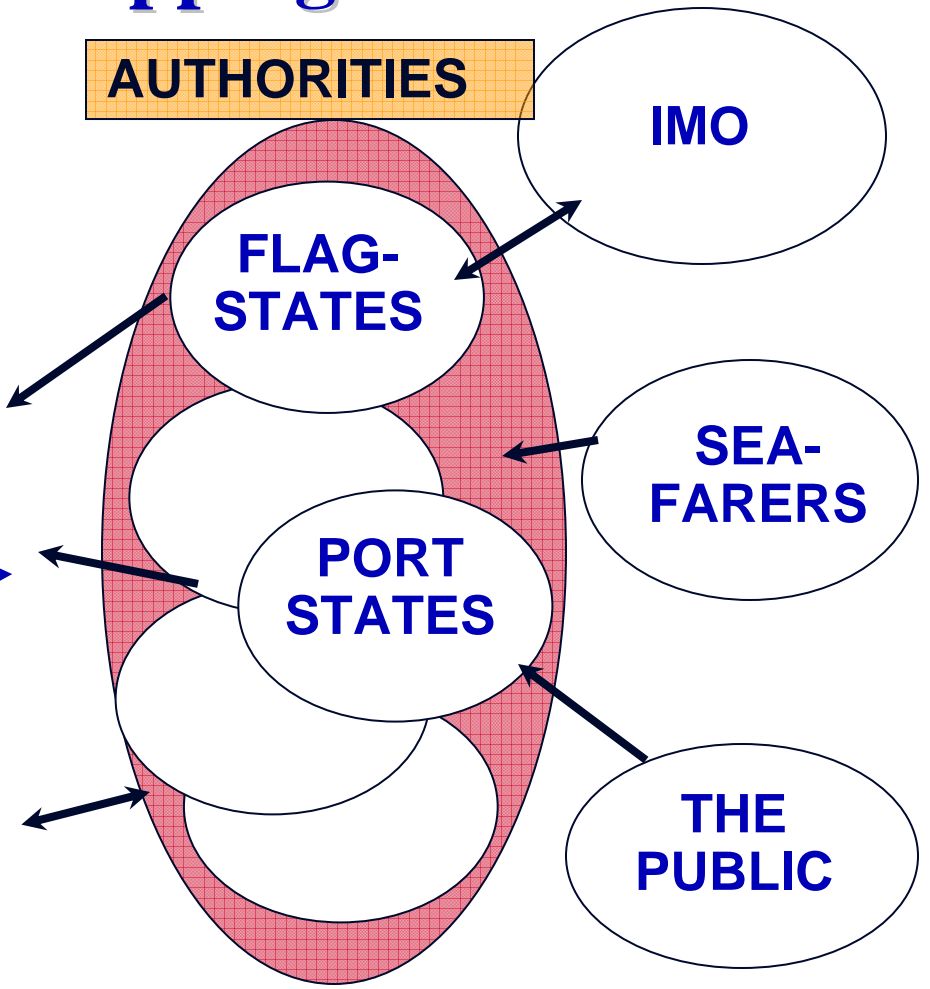
Γιάννης Τσόλκας
Det Norske Veritas

Players on the Shipping Scene

THE BUSINESS COMMUNITY



AUTHORITIES



The Maritime Safety Regime

Summing up

FLAG STATE



Provide and implement maritime safety regulations

CLASS



Enforcement through classification and certification

SHIPOWNER



Ensure implemented standards being maintained

PORT STATE



Verify implementation and enforcement

Ship Classification - Main Tasks

- ◆ Development and maintenance of safety standards (the Rules)
- ◆ Verify compliance with the Rules during design, construction and operation - throughout the lifetime of the ship

Role of CLASS SURVEYOR

- ◆ Surveys during construction (Newbuildings)
- ◆ Surveys of Ships in Operation
- ◆ Certification of Materials and Components
- ◆ Consultancy Services / 3rd party surveys

(cont'd)

- ◆ Reporting of Surveys
- ◆ Training / New Regulations update
- ◆ Customers consultation

Role of Surveyor - Newbuildings

- ◆ Planning and organization (project management)
- ◆ Qualification of personnel (e.g. welders) and processes (e.g. welding processes)
- ◆ Surveys/Tests during construction at Yard (incl. final tests and sea-trials)
- ◆ Monitoring of plans approval
- ◆ Issue of Interim Class and Short Term certificates at completion and final reporting for Class Entry

Role of Surveyor - Ships in Operation

◆ Planning of Surveys - Scope

- Class and Statutory Surveys - Survey Status
- Applicable Rules and Regulations
- Previous Survey records and damage records if applicable
- Information regarding use of tanks and corrosion protection
- Occasional Surveys
- Miscellaneous (3rd party) surveys

Role of Surveyor - Ships in Operation (cont.)

◆ Execution of Surveys

- Provisions for the survey regarding Safety - Access
- UTM & other Tests

◆ Evaluation-Reporting

- Endorsement/Issue of Certificates -
- Issue/deletion of Conditions of Class
- Quick and Final Reporting

SHIP'S SURVEY- Steel Structure

- ◆ **Visual overall inspection**
(e.g. for general condition evaluation, inspection for damages)
- ◆ **Visual close-up examination**
(for evaluation of corrosion, cracks, buckling, pitting, grooving etc.)
- ◆ **Testing**
(e.g. UTM, pressure tests, NDT of welds)
- ◆ **Evaluation**

SHIP'S SURVEY- Machinery

- ◆ Continuous Machinery Survey, or Renewal Survey Machinery (every 5yrs), and more rarely PMS (planned Maintenance) and nowadays starting Condition Monitoring
- ◆ Items credited by
 - External survey with performance test - verification of last overhaul.
 - Visual inspection by opening-up fully or partially and Function testing / Pressure testing
- ◆ For CMS some items credited by Chief Engineer and verified by Surveyor at survey time. For PMS annual audit/check of records

Scope of Surveys - Ships in Operation

- ◆ Annual, intermediate and 5-year renewal survey for all certificates to verify that standards are being maintained.

- ◆ Periodical Surveys - Main Class
 - Hull, Machinery and Equipment
 - Bottom
 - Boilers
 - Tailshaft

Scope of Surveys - Ships in Operation (cont.)

- ◆ Scope of surveys increases with age of ship and type of ship e.g.
 - ESP vessels: Tankers for Oil or Chemicals and Dry Bulk cargo ships
 - Passenger Ships/Car Ferries
 - Tankers for Liquified Gases
- ◆ Additional Class Notations e.g.
 - Periodically Unattended Machinery Space
 - Tailshaft Monitoring

Provisions for the survey

- ◆ Means for Access (e.g. staging, cherry-picker)
- ◆ Ventilation
- ◆ Tank Atmosphere
- ◆ Visibility / Lights
- ◆ Cleanliness
- ◆ General Safety (e.g. Rafting conditions while at sea)
- ◆ additional safety measures

Occasional Surveys

- ◆ Damage Surveys
- ◆ Conversion Surveys
- ◆ Surveys for deletion of Conditions of Class
- ◆ Surveys of Laid-up vessels
- ◆ Class Entry Surveys
- ◆ Port State Control follow-up Surveys

Miscellaneous Surveys

- ◆ Condition Evaluation Surveys on behalf of prospective buyers
- ◆ Condition Assessment Programme (CAP)
- ◆ other 3rd Party Surveys
 - On-Off Hire Surveys ,
 - Average Survey for Underwriters,
 - Issue of Declarations

Important Conventions

- ◆ SOLAS (Safety Management, Life Saving Appliances, Fire Protection, Stability, etc.)
- ◆ MARPOL (Pollution Prevention - Oil, Sewage, Chem, Ballast-Water, etc.)
- ◆ LOAD LINE (Freeboard, etc.)
- ◆ STCW (Training and certification of seafarers, etc.)

Flag States

- ◆ A ship has to comply with the safety regulations, issued by the Maritime Authority of the country whose flag the ship is flying (the Flag State)
- ◆ Flag States are adopting and implementing the safety regulations given in the conventions, issued by IMO (The International Maritime Organisation)
- ◆ Flag States authorize Classification Societies to carry out inspections and issue Statutory Certificates on their behalf.

Port States

- ◆ Ports (states) where ships are calling also board ships and inspect the status of certification, but also do physical inspection to verify that ships are complying with international conventions.
- ◆ In case of serious deficiencies, ships may be detained until rectification has been carried out
- ◆ Group of countries forming port state regimes (common check lists, targeting criteria, exchange of ship information) e.g. **TOKYO MOU, PARIS MOU**