



Exploration & Production

GENERAL SPECIFICATION

STRUCTURAL

GS STR 656

Requirements for tanker documentation
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1. Scope

This document defines the documentation to be provided for starting the process of assessing the acceptability of a tanker for conversion to a F(P)SO.

2. Reference documents

The reference documents listed below form an integral part of this General Specification. Unless otherwise stipulated, the applicable version of these documents, including relevant appendices and supplements, is the latest revision published at the EFFECTIVE DATE of the CONTRACT.

Standards

The document [ISO 19904](#) "Floating offshore structures including stationkeeping, Draft C++, July 2001" being worked constitutes the main reference that will be used when available officially. Its content can be used for guidance as required.

Reference	Title
ISO 13819	Offshore Structures, Part 1: General Requirements, 1995
ISO DIS 13702	Control and mitigation of fires and explosions on open type offshore production platforms
IEC 7910	Part 10: Electrical apparatus for Gas atmosphere: for Classification of hazardous areas
IEC 60092-502	Electrical Installations in ships - Part 502: Tankers - Special features

Professional Documents

Reference	Title
OCIMF	Guidance Manual for the inspection and condition assessment of Tanker Structures Rev 1 1986
OCIMF	SIRE Revised Ship Inspection Report

Regulations

Reference	Title
IMO Marpol	International Convention for the Prevention of Pollution from ships
IMO Solas	International Convention for the Safety of Life at Sea
IMO ILLC	International Convention on Load Lines
IMO resolution A749 (18)	Intact stability criteria



Codes

Reference	Title
IMO MODU	Code for the Construction and Equipment of Mobile Offshore Drilling Units
ISPS	International Ship and Port Security code

Other documents

Classification Society Rules: The “ship rules” which have been used at the construction and during the normal operation for oil trading and which are applied under certain conditions for repair of the tanker functions shall be identified.

Reference	Title
IACS	Shipbuilding and Repair Quality Standard” (N°47) dated 1996

Total General Specifications

Reference	Title
GS SAF 216	Area classification
GS SAF 221	Safety rules for buildings
GS SAF 228	Liquid drainage
GS SAF 351	Escape, evacuation and rescue from fixed installations
GS STR 651	General Principles for a F(P)SO Design

3. Proposed Vessel General description

3.1 Ship History

3.1.1 Ship Name and OWNER

Indicate the vessel's current name and OWNER.

3.1.2 Ship yard and Age

Indicate the vessel's Year built and its Shipyard. Indicate also its keel laying date and main sister ships.

3.1.3 Service to date

Provide a brief summary of the vessel activities and history since its first operation (Ship Runners, Service type, area of operation, trade routes, lay-up periods, etc.).



3.1.4 Incident and repairs

Provide a brief summary of the vessel's major incident, list of repairs and dry-docking (with steel tonnage replaced). Provide also a summary of last hull surveys and steel thickness measurement.

3.1.5 Flag

Indicate the current Flag of the vessel.

3.1.6 Classification History

Indicate the vessel Classification History.

3.2 Vessel main particularity

Indicate the following main dimensions of the Vessel:

- Deadweight: MT
- Displacement fully loaded: MT
- Displacement Lightship: MT
- Length overall: m
- Length between perpendicular: m
- Breadth: m
- Depth moulded: m
- Draught (min/max): m
- Gross cargo capacity: bbls
- Deck area: m²

Provide the following Drawings:

- General arrangement
- Mid-ship section
- Capacity plan
- Deck Lay-out
- Piping arrangement (only for Cargo and Ballast Piping Diagram)
- Engineroom layout
- Safety plan (inc; number and location of monitors and fire hydrants).

3.3 Accommodation

- Maximum capacity all included (OWNERS, pilots, etc.)
- Total cabins
- Number of beds
- Number of officers



- Number of dayrooms/recreation rooms
- Catering capacity
- Is there a sprinkler system?
- Is there a hospital (describe)
- Does the accommodations contain asbestos.

3.4 Hull

3.4.1 Tank arrangement

- Number and capacities of cargo tanks
- Number and capacities of slop tanks
- Number and capacities of segregated ballast tanks
- Type of tank pressure protection system.

3.4.2 Hull construction

- Extent of use of high tensile steel
- Design margins on scantling.

3.4.3 Corrosion protection

- Corrosion thickness allowance
- Tanks and external hull Painting status
- External Hull Cathodic Protection
- Internal Tank Cathodic protection.

3.5 Hull System and Facilities description

3.5.1 Cargo Systems

Tank gauging system:

Characteristics

Heating Coils: ” Yes ” No

Inert Gas System/Venting: ” Yes ” No

Crude Oil Washing System: ” Yes ” No

Cargo Pumps: ” Yes ” No

Number:

Capacity: m³/h at delivery pressure of bars

Cargo Control Room: ” Yes ” No



3.5.2 Power generation

Number of generators with voltage:

Total available Power: MW

Fuels: Characteristics

MDO: " Yes " No

HFO: " Yes " No

Crude Oil: " Yes " No

Gas: " Yes " No

3.5.3 Propulsion plant

Number and rating of boilers

Characteristics

Boiler modification to multiple Fuels: " Yes " No

Steam Turbine driven Generators: " Yes " No

Gas Turbine Driven Generators: " Yes " No

Diesel Engine Driven: " Yes " No

Combined Cycle: " Yes " No

3.5.4 Safety and Pollution prevention

Characteristics

Gas detection: " Yes " No

Fire Fighting: " Yes " No

Fire Pumps: " Yes " No

Pressure and flowrates:

Fire Main and Deluge Systems: " Yes " No

Foam Systems: " Yes " No

CO₂ systems: " Yes " No

Emergency lighting: " Yes " No

Escape routes and Shelters: " Yes " No

Muster areas: " Yes " No

Spill containment Equipment: " Yes " No

Is there a sewage system?

Is there an oily water discharge monitoring?

Fast Rescue Boat

Number:

Max number of pers.:



Enclosed Life Boats

Totally Enclosed Survival Craft: " Yes " No

Free Fall Survival Craft: " Yes " No

Is there an UPS system on board?

3.5.5 Major Deck Equipment

Indicate the existing Major Deck Equipment: Characteristics

Pedestal Cranes (personnel transfer): " Yes " No

Specific Lifting capacity: SWL T x Metres outreach

Pedestal Cranes (Goods transfer): " Yes " No

Specific Lifting capacity: SWL T x Metres outreach

Helideck: " Yes " No

Suitable for Helicopter type:

Custody Oil Metering and Proving loop Skid: " Yes " No

Offloading Flow capacity: m³/h

Ultrasonic Metering Skid: " Yes " No

Other System, such as:

3.6 Existing Process System description (if any)

Indicate the existing main Process system: Characteristics

Oil and gas separation-oil export: " Yes " No

Gas dehydration: " Yes " No

Gas compression: " Yes " No

Produced water treatment: " Yes " No

Seawater systems: " Yes " No

Flare system: " Yes " No

Fuel gas system: " Yes " No

Compressed air system: " Yes " No

Chemicals (methanol, glycol, etc.): " Yes " No

Other System, such as:

Provide **description and main characteristics** of the existing Process system.

4. Classification and Certification

4.1 Classification Society of the Vessel

Indicate the current Classification Society (CS) of the Vessel and provide the last classification report (annual or special visit).



Indicate whether the Vessel has changed of CS or class notations and when.

4.2 Certificates

Provide copy of the Vessel Certificates (Class certificates, Cargo Ship Safety equipment, Load Lines, Register and Cargo Ship Safety Construction).

4.3 Condition Assessment

A follow-up through a Classification Society programme such as Nauticus, Safehull, Shipright or Veristar is considered as important.

COMPANY reserves the possibility to require such information during the selection process. This shall be based on extensive steel gauging survey and crack search covering in particular:

- Main deck
- Side shell
- Bottom plate
- Bulkheads and internal structure.