Classification Service for Offshore Floating Units



CCS
CHINA CLASSIFICATION SOCIETY
中国船级社

Brief Introduction

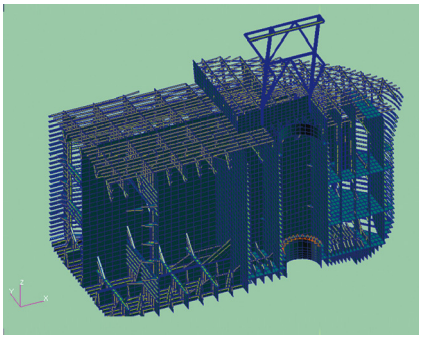
With the development of deep-sea oil and gas projects, demand for FPSOs is increasing. CCS has carried out statutory and classification survey for more than 20 since the 1990s, and accumulated a wealth of experience.



11 FPSO Construction & Conversion Survey



18 FPSO In-service Survey



9 FPSO Structure Safety Assessment

CCS Experience

NAME	TYPE	SURVEY EXPERIENCE	OIL FIELD	Capacity (*1000m³)	MOORING TYPE
HAI YANG SHI YOU 102	FSO	Classification & Statutory Survey	BO NAN Oil Field	65.8	YOKE
HAI YANG SHI YOU 111	FPSO	Classification & Statutory Survey	PAN YU Oil Field	150	INTER TURRET
HAI YANG SHI YOU 115	FSO	Classification & Statutory Survey	XI JIANG Oil Field	120	INTER TURRET
HAI YANG SHI YOU 116	FSO	Classification & Statutory Survey	WEN CHANG Oil Field	123.2	INTER TURRET
HAI YANG SHI YOU 118	FSO	Classification & Statutory Survey	EN PING Oil Field	150	INTER TURRET
NAN HAI FENG JIN	FPSO	Classification & Statutory Survey	WC13-1/2 Oil Field	124.8	INTER TURRET
HAI YANG SHI YOU 112	FPSO	Classification & Statutory Survey	CFD Oil Field	157.5	YOKE
HAI YANG SHI YOU 113	FPSO	Classification & Statutory Survey	BZ25-1 Oil Field	160.4	YOKE
BO HAI SHI JI	FPSO	Statutory Survey	QHD32-6 Oil Field	164.9	YOKE
BO HAI YOU YI	FPSO	Statutory Survey	BO NAN Oil Field	49	YOKE
HAI YANG SHI YOU 117	FPSO	Statutory Survey	PL19-3 Oil Field	286.2	YOKE
HAI YANG SHI YOU 105	FPSO	Statutory Survey	For Repairing	52	YOKE
NAN HAI FA XIAN	FPSO	Statutory Survey	HUI ZHOU Oil Field	308	INTER TURRET
NAN HAI SHENG KAI	FSO	Statutory Survey	LU FENG Oil Field	126	INTER TURRET
NAN HAI SHENG LI	FPSO	Statutory Survey	LIU HUA Oil Field	185	INTER TURRET
HAI YANG SHI YOU 121	FSO	Classification & Statutory Survey	LU FENG Oil Field	123.5	INTER TURRET
SHEN HAI YI HAO	SEMI-FPSO	Classification & Statutory Survey	LINGSHUI 17-2 Gas Field	25	ANCHOR CHAIN MOORING
HAI YANG SHI YOU 119	FPSO	Classification & Statutory Survey	Liuhua 16-2 Oil Field	195	INTER TURRET


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cnooc







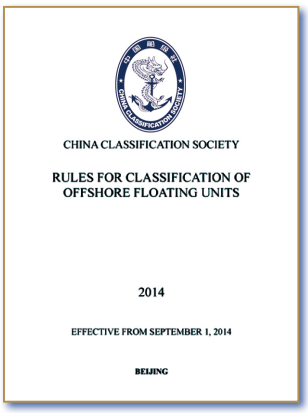


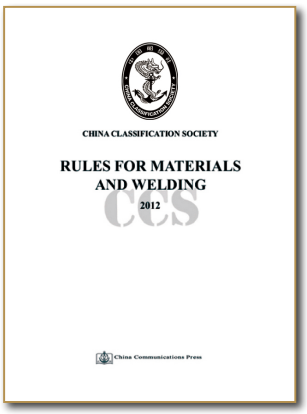

海洋石油 118
HAIYANG SHI YOU
cnooc

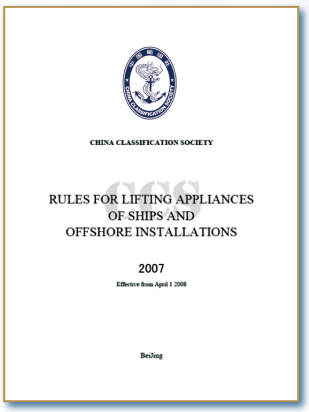


Rules

- Rules for Classification of Offshore Floating Units
- Rules For Classification Of Sea-Going Steel Ships
- Rules For Materials And Welding
- Rules for Offshore Oil and Gas Process System
- Rules for lifting Appliances of Ships and Offshore Installations
- Rules for Single Point Mooring System







Softwares

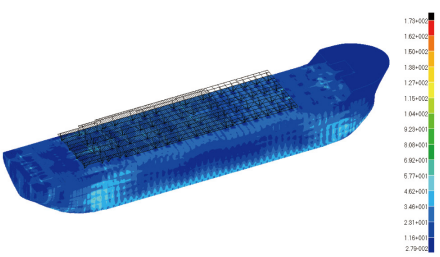
ZenStab

- Stability cal (offshore part)
- Loading cal



ZenMoor (frequency domain)

- mooring system analysis



Orcaflex (time domain)

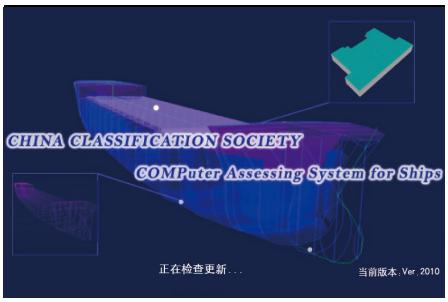
- Fully coupled vessel/line analysis
- Vortex induced vibration analysis
- Installation analysis (subsea system)

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COMPASS-Rules

- Stability calculation(ship part)
- Tonnage calculation
- Section characteristic calculation
- Electrical power network short circuit calculation
- Gear strength calculation
- Shafting calculation



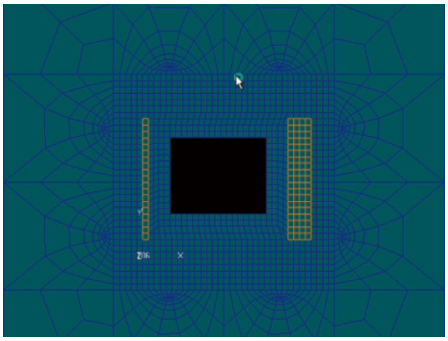
COMPASS-WALCS-BASIC

- Hydrodynamic responses cal
- Hydrostatic force cal



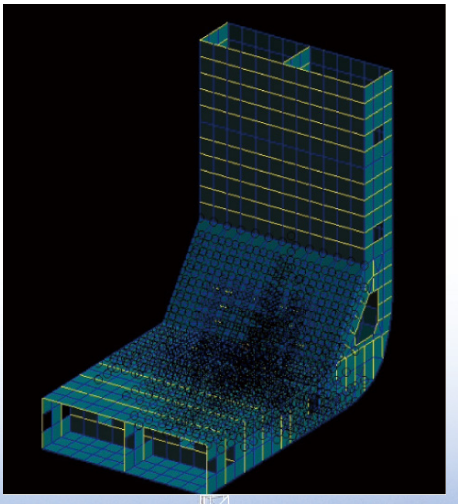
MSC Patran & Nastran

- Structure analysis



ANSYS (AQWA)

- Structure analysis
- Hydrodynamic analysis

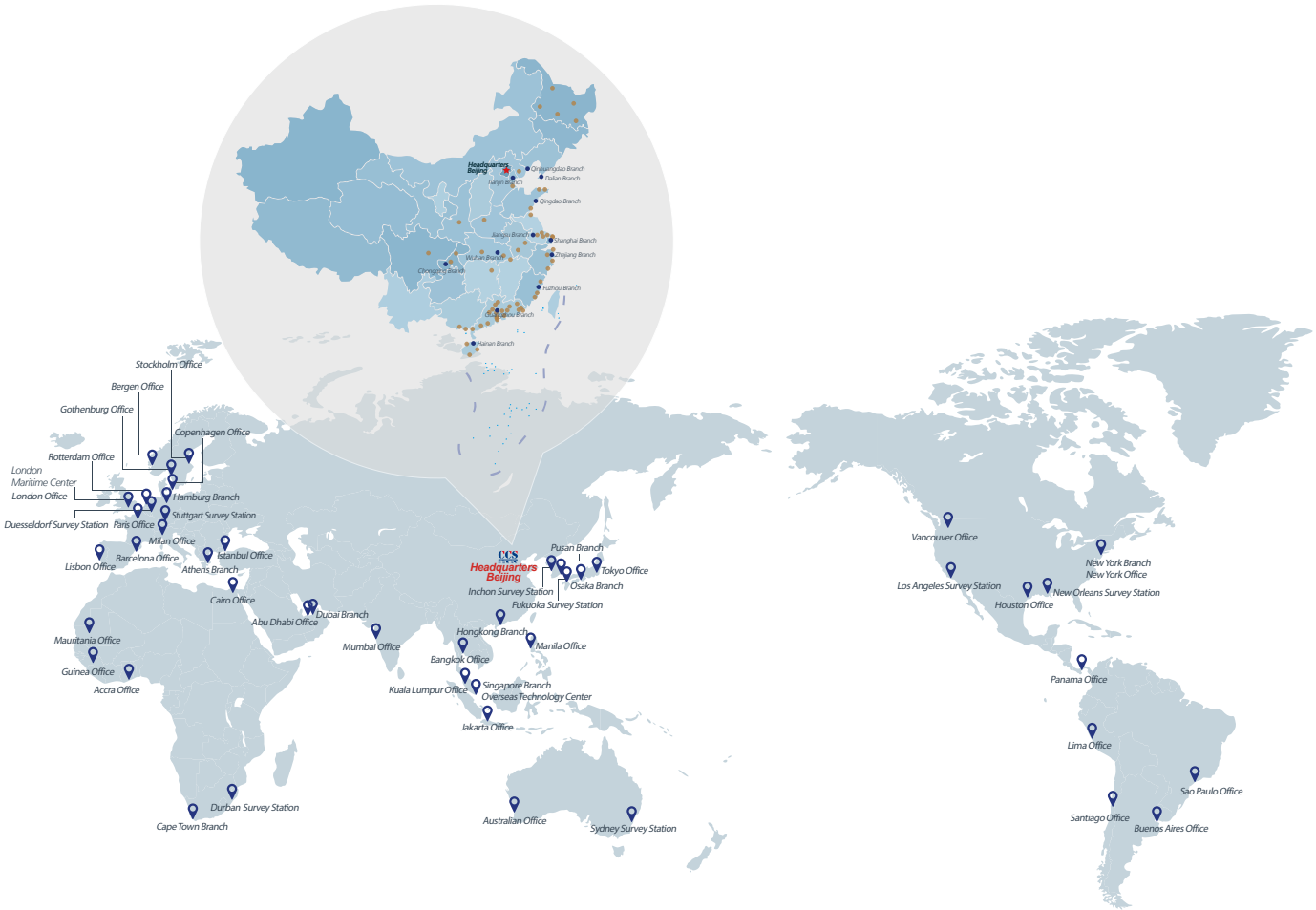




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To meet the demand of our customers, we have set up branches and offices in major port cities in China as well as in Asia, Europe, America, Middle East, Australia and many other countries or regions worldwide, forming a global survey network.



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