

Our Content...

Who We Are...



What We Do...



Why Choose Us...



Our Footprint...



4

Who We Are...

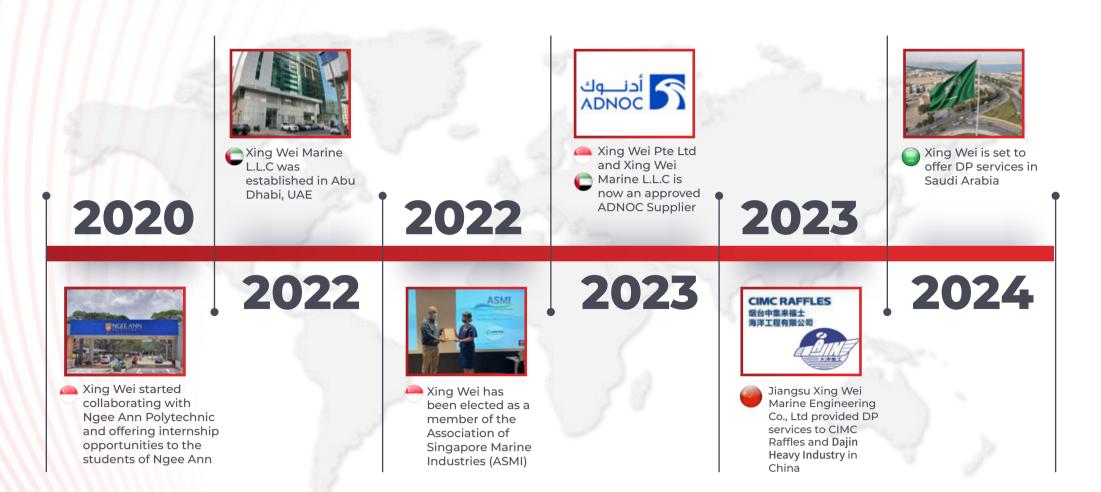
- One Stop service of Marine Consultancy Company that offers a comprehensive range of service such as DP FMEA Proving Trial, DP Trial, Vessel Systems Design, Integration Consultancy & Project Management.
- Ship Brokering services regional cover for South East Asia.
- As a top-tier service-based company, we specialise in providing comprehensive solutions for marine inspection and technical services.



Company Milestones



Company Milestones



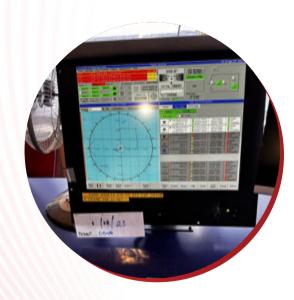


- 1 Dynamic Positioning Consultancy
- 2 Marine Survey & Inspection
- 3 Ship Brokerage

Dynamic Positioning Consultancy



- 1. DP FMEA Report
- 2. DP FMEA Proving Trials
- 3. DP Operation Manual
- 4. Annual DP Trial
- 5. 5th Yearly DP Trial
- 6. DP Health Check
- 7. ASOG (Activity Specific Operating Guidelines)
- 8. DP Upgrade Management







Marine Survey & Inspection



- 1. Marine Survey/ Marine Warranty Survey
- 2. Marine Assurance Inspections (OCIMF OVID and IMCA eCMID)
- 3. Owners Technical Inspection
- 4. Vessel Safety & Conditional Inspection
- 5. ISM / ISPS Audit
- 6. Pre-purchases & Pre-charter Survey







Ship Brokerage



- 1. Newbuilding Contracts
- 2. Project Financing
- 3. Second-hand Tonnage Sale & Purchase
- 4. Offshore Projects
- 5. Vessel Evaluation
- 6. Chartering Service







We Specialise in...

DP FMEA

- 150+ DP FMEA
- 850+ DP Annual Audit Trials
- 20+ DP Remote Trials



















We Have Done...

DP Class

- DP Equipment Class 1 (DP-1)
- DP Equipment Class 2 (DP-2)
- DP Equipment Class 3 (DP-3)













DP FMEA

FMEA XW VESSEL NAME BT1 COOLER PORT FW PORT REDUNDANT GROUP **EXPANSION** STBD REDUNDANT GROUP TANK COMMON POINTS MOTOR DG2 PORT MAIN ENGINE ST OIL COOLER GEAR BOX (P) PORT FW COOLING PUMP (P) CENTRAL FW COOLING STANDBY PUMP PW COOLING PUMP (5) STBO COOLER 123 STBD MAIN ENGINE BOX (5) PLANT BT2 LI LAL MOTOR STBD FW **EXPANSION** PLANT TANK ₩ 0To COOLER ECR A/C FAI PRESSURE ALARM LOW [#] PRESSURE INDICATOR 1/4 CHECK VALVE

Figure 13: Freshwater Cooling System

LEVEL ALARM LOW

TEMP CONTROL VALVE M NON-RETURN VALVE

VESSEL NAME



4.4.8 FAILURE MODE AND EFFECT ANALYSIS

Below table describes the failure modes and effects associated in the FW system.

No	lo Description Cause		Detection	Probability	Severity	Criticality	Final Effect on DP / system Loss of redundancy. LT FW standby pump auto starts and relevant isolation valve auto realign to resume FW cooling circulation to the affected system.		
1	1 Failure of Port - Pump failure / Stbd LT FW - Component failure Pump - Power failure	Can be detected by routine monitoring and inspection during planned maintenance. Low pressure alarm initiated at AMS	Remote	Minor	Low				
2	Failure of standby LT FW Pump	Pump failure Component failure Power failure	Can be detected by routine monitoring and inspection during planned maintenance.	Remote	Minor	Low	Loss of redundancy. Main LT FW pumps are still operational. No loss of LT FW circulation. No loss of thrusters.		
3	Port FW Expansion tank empty	Mechanical seal failure Gasket failure Valve leakage Cooler leakage Pipe Leakage / Pipe Failure	Low pressure / high temperature alarm initiated at AMS	Remote	Major	Medium	Loss of Port FW circulation. Loss of cooling to notable cooling units such as Port WE, DG1, DG2, BT1 Cooler, BT1 Motor, and Port Azimuth Thruster LO Cooler. This will ultimately lead to the overheating and shutting down of Port M/E, BT1 and Port Azimuth Thruster. Vessel maintains position and heading with remaining thrusters.		

DP Trial Progeammes...

Test		Test Result		2000000	VESSEL NAME FMEA PROVING TRIAL W					Equipment			
No.	Test Description	8	A	U	NC	Remarks	38.	Freshwater Cooling System	1	1			Objective
1.	Software Audit	1				7	39.	Compressed Air System	1	_	1		Assumption
2.	Gyrocompass Failures Test	1					-		1	+	-		Location
3.	Wind Sensors Failures Test	1				4	40.	Fuel Oil System	77.17	-	-		Method
4.	VRS Failures Test	1		1	7	i.	41.	Lube Oil System	1	-	\vdash		
5.	Failures of DGNSS 1	1		40			42.	Seawater Cooling System	1		\vdash		
6.	Failures of DGNSS 2	1	- 0	(-	OF .	43.	Ventilation / HVAC / WT Doors	1				
7,	CyScan Failure Test	1		9	20	1	44.	Diesel Generators & Main Engine Protection, Alarms					
8.	Position Dropout Alarm and Mathematical Model Tests	1		- 4	100	- 607		and Trips	100				
9.	DP Performance (Movement and Rotation)	1			10	2-47	45.	Failure of Power Management System	1		.0.		Results Expected
10.	Position and Heading Limit Alarm	1					46.	Load Dependent Start	1		W.		Expected
11.	Failures of DP Network Test	1	0_		0		47.	Voice Communications	1	60			
12.	IJS Performance test	1	100		0		48.	Blackout Prevention	1	9.0		027	
13.	Simulate Insufficient Thrust Test	1	-	0.0	1	1	49.	DP Endurance Test	1	100	1		
14.	Failure of DP UPS 1 and Battery Endurance Test	1		~			50.	Load Sharing	1			100	
15.	Failure of DP UPS 2 and Battery Endurance Test	1					_	51. Generator Load Testing		_		-	Actual
16.	Failures of DP Controller	1							1	_	-	100	Results
17.	Failure of DP Operator Station	1							100	+			
18.	Main Engine Full Power Test	1					53.	Recovery from All-Vessel-Shutdown	1	-	10		
19.	Failure of 24Vdc Bus Bar 1	1					_						
20.	Failure of 24Vdc Bus Bar 2	1					5-5	stiefactory A – Attention U - Unac	epted		NC -	Not conducted	
21.	Failure of 220Vac Bus Bar A	1					040333						
22.	Failure of 220 Vac Bus Bar B	1				2	- Witnes	s and Acceptance					
23.	220Vac / 440Vac Emergency Switchboard Failure	1					Tions or a						
24.	Failure of 440 Vac Bus Bar A	1					The co	impleted trial results together with the DP related finding(s)	is appen	ded to t	his repo	ort.	
25.	Failure of 440Vac Bus Bar B	1											
26.	Failure of 440 Vac Bus Bar C	1					As per the appended test report, it is certified that the above tests have been successfully completed and is witnessed and accepted by the below.						
27.	Failure of 440 Vac Bus Bar D	1											
28.	Simulate Main Engine Failure (WCFDI)	1											
29.	Thruster Full Power Tests	1					3						
30.	Tunnel Thruster Hydraulic System Failure	1					Witne	ss Name : Auditor	Name	: 1	ames T	sen	
31.	Tunnel Thruster Control System Signal Failure	1					Class		my	: XING WEI PTE LTD		EI PTE LTD	2
32.	Tunnel Thruster Control System Power Failure	1				Č.				_			
33.	Main Propulsion Hydraulic System Failure	1					-						
34.	Main Propulsion Control System Signal Failure	1					Signa	ture : Signati	ine	4			
4.71		_				Ü.	Date	Date			4rd Feb	2021	
35	Main Produition Control System Power Failure												
35.	Main Propulsion Control System Power Failure Main Engine Control System Failure	1					_	- Date			4141	LULI	

Test No.2: Gyrocompass Failures Test Equipment Gyrocompass To demonstrate the failure effects of gyro Assumption Power plant, PMS, DP and Thrusters are fully operational and available Electronic Equipment Room, Wheelhouse (DP Station) ocation Method With vessel on full auto DP and the full DP setup configuration as stated in the Section 2.4. 1. Select Gyro 1 as preference in DP. Disconnect the Gyro 1 serial link at the cabinet. Observe results and reinstate 2. Select Gyro 1 as preference in DP. Disconnect the Gyro 1 ready signal at the cabinet. Observe results and reinstate 3. Fail the main power supply to Gyrn 1. Observe results and reinstate Fail the backup power supply to Gyro 1. Observe results and reinstate. Repeat the step 1 to step 4 for Gyro 2 and Gyro 3. Gyro 1 1. Alan Alarms initiated on DP, Gyro 1 rejected from DP and auto switch to next gyro. No effect on the vessel heading Alarms initiated on DP, Gyro 1 rejected from DP and auto switch to next gyro. No effect on the vessel heading. 3. No alarm and no effect on DP alarm initiated on local ovro panel. No loss of Gyro. No alarm and no effect on DP, alarm initiated on local gyro panel. No loss of Gyro. 5. Same results from step 1 to step 4 for Gyrp 2 and 3. Actual Failure Effects on DP Alarm initiated on DP Loss of equipment. Loss of redundancy. Gyro 1 rejected from "Gyro 1 not ready" "GYRO1_Nmea-DP and auto switch to Gyro 2. No Telegram Timeout" effect on DP. Ready signal Alarm initiated on DP "Gyro 1 not ready" redundancy. Gyro 1 rejected from DP and auto switch to Gyro 2. No effect on DP. 3 Main nower Alarm initiated on AMS Loss of one power supply to Gyro. WO.1 GYRO Loss of redundancy. Alternative supply COMPASS POWER power from 24Vdc DC1 is still available. No loss of Gyro. No effect on DP. Backup power Loss of one power supply to Gyro. supply **"NO.1 GYRO** Loss of redundancy. Alternative COMPASS POWER power from DP UPS 2 is still FAULT" available. No loss of Gyro. No effect on DP Effects on DP Alarm initiated on DP Loss of equipment Loss of "Gyro 2 not ready" redundancy. Gyro 2 rejected from 'GYRO2_Nmes-DP and auto switch to Gyro 1. No effect on DP. Telegram Timeou Ready signal "Gyro 2 not ready" redundancy. Gyro 2 rejected from DP and auto switch to Gyro 1. No

Alarm initiated on AMS

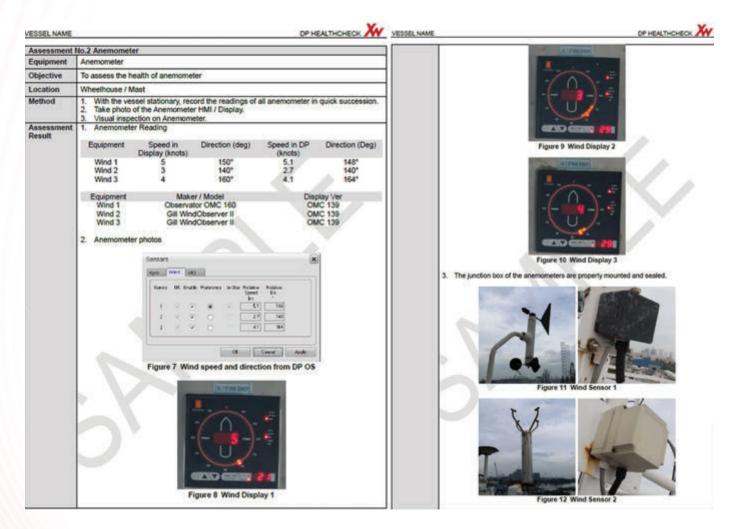
Main power

effect on DP.

FMEA PROVING TRIAL W

DP Health Check...

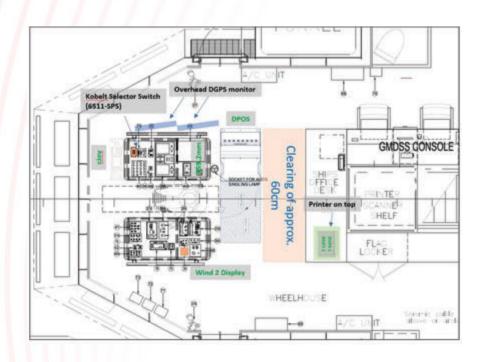
- Checking of DP Interface with sensors.
- Checking of DP Interface with thrusters.
- Create a plug-and-play back up for your DP OSes.



ASOG/WSOG/FSOG ...

	Condition	GREEN	ADVISORY	YELLOW	RED		
Notify Master, Chief Engineer, Client Rep, Crane, Deck and Surface Facility		NO	YES	YES	YES		
	Action	CONTINUE NORMAL OPERATIONS	INFORM / CONSULT / RISK ASSESS (CONSIDER ONGOING AND UPCOMING OPERATIONS)	CEASE OPERATIONS, BRING VESSEL TO SAFE POSITION, EXIT 500m ZONE. (DEFAULT WORKSITE TO 200m ON DP; 200m TO 500m MAY EXIT ON JOYSTICK OR MANUAL)	CEASE OPERATIONS - LEAVE 5000 ZONE / WORK AREA IMMEDIATELY		
500	Weather / Environment Forecast	Within Operating limits	Approaching operating limits	Exceeding operational limits	-		
assay bre st	Drive Off / Drift Off	No discrepancies observed in PRS's and thruster loading as expected	Discrepancies observed in PRS's and/or inexplicable ramp up of thrusters observed	Immediately when recognized by DPO	Unable to bring the vessel under control		
Tance	Vessel Footprint/Weather related excursion (From Set point)	No position alarms or warnings	Position exoursions, frequent alarms or position limits (> 3m)	Position excursion (> 5m)			
Perbm	Heading excursion	No heading alarms or warnings	Heading instability with frequent alarms or heading deviation (> 3 degrees)	Heading deviation (> 5 Degrees)			
A LONGINGA	Maximum Heading change	Maximum step change <= ??? degrees	Step change > ??? degrees				
TROPA.	Maximum Position change (step)	500m - 200m: <= ???m 200m to worksite: <= ???m	Any other setting				
Thrusters, Main pulsion and Steering	All Thrusters	Operating without any alarms and operating on main pumps	Any in alarm or operating on backup pumps	Loss of any thruster			
	Bow Thrusters loading (Power)	Both < 45%	Either between 45% and 50%	Either > 50%			
Propulsion	Main Propulsion loading (Power)	Both < 20%	Either between 20% and 25%	Either > 25%			
men fue	Main Diesel Generator	At least one diesel generator online on each auxiliary bus and operating without any alarms	Any alarm, poor performance, unexpected or unexplained event	Loss of any online main diesel generator			
Engines	Shaft Generators	Both operating without any alarms	Any alarm, poor performance, unexpected or unexplained event	Loss of any shaft generator			
	Shaft Generators Loading	Both < 45%	Either between 45% and 50%	Either > 50%			
PMS	PMS System	All operation and no Alarm	Any incorrect information, alarms, poor performance, unexpected or unexplained event.	1			
UPSI	DP UPS's	Batteries fully charged and no alarms and not in bypass	Batteries not fully charged, any UPS alarm, in bypass or problems found	Any UPS system on batteries			
5	24Vdc	Batteries fully charged and no alarms and charger supply available	Batteries not fully charged, any charger alarm or problems found	Any 24Vdc system on batteries			
stem	Main DP Control System Controllers	Both controllers and power supplies available	Any alarm, poor performance, unexpected or unexplained event	Only one controller or power supply operating			

DP Upgrade Project Management

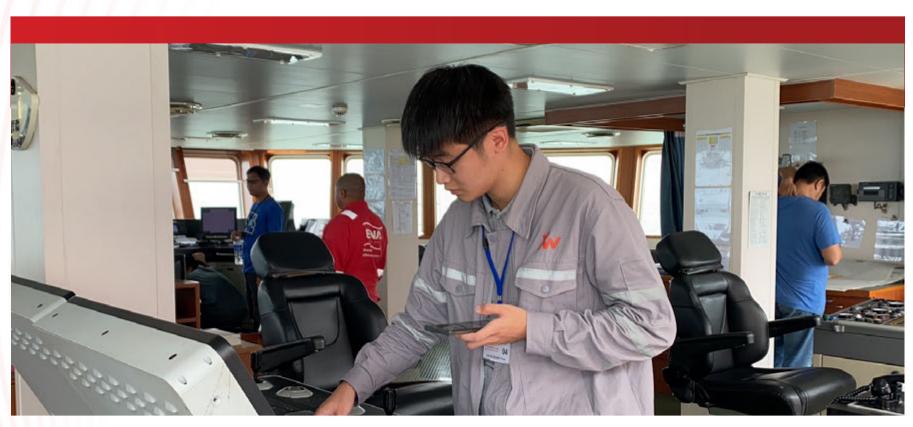


WHEELHOUSE AFT SECTION

- Placement of equipment
- Wiring requirement and routing
- Engineering works (i.e drawings amendment, interface drawings, documentation).
- DP FMEA Services
- Sizing thrusters and power plant to withstand environmental condition



Why Choose Us...













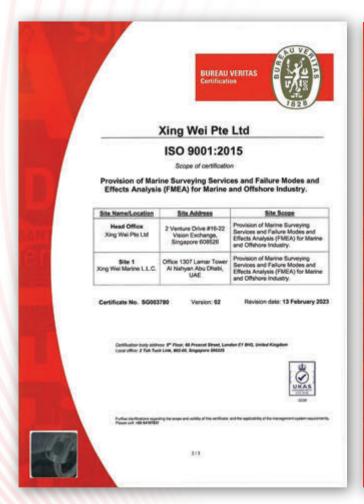
- ♦ IMCA Supplier Member since 2010
- Certificate of Participation & Industry Leadership
 - DP Trials & Assurance Practitioner



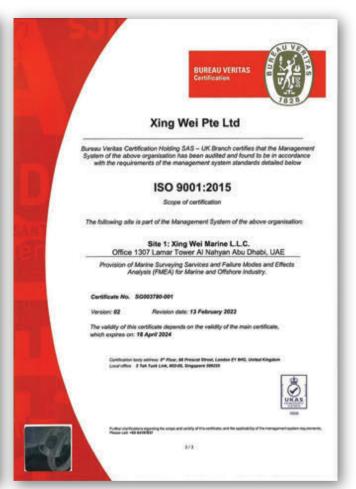




Certified by Bureau Veritas For ISO 9001:2015







BizSafe 4 certified



Date of issue: 03/02/2022



CERTIFICATE

The Workplace Safety and Health Council is pleased to certify that

XING WEI PTE, LTD.

has fulfilled the requirements to attain bizSAFE Level 4

This certificate is valid till 30/1/2025

Christopher Koh

General Manager Workplace Safety and Health Council

Certificate No. E24140

SME Medal of Honour



TOP 100 TRUSTED SMES





ADNOC APPROVER SUPPLIER



XING WEI IS NOW AN APPROVED ADNOC SUPPLIER

This certificate is valid till 3/24/2027

Work Group Commodity	Consultancy / Engineering Services				
Work Group Commodity Code	110 – Project Consultancy / Engineering				
Work Group	110320 - Marine Surveys				
Pre-Qualification Status	PQ - Prequalified				
Classification	D				

ADNOC Unified no. for XING WEI MARINE LLC (UAE) - 10072921
ADNOC Unified no. for XING WEI PTE LTD (SINGAPORE) - 20032515

Our Clientele

South East Asia





































East Asia



福建省马尾造船股份有限公司 Fujian Mawei Shipbuilding Ltd.



≠廖科学院 深海科学与工程研究所



交通运输部烟台打捞局 CHINA YANTAI SALVAGE













CNIPC

Middle East and Others



























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Ship Brokerage





With a rich clientele resources and professional services, INTLCO has successfully brokered more than 1068 newbulding / S&P vessels in major Chinese yards, both state-owned and privately-owned.

Vessel Types and Capacities:



Tankers Ranging from Coastal (4,000DWT) up to VLCC(300,000DWT)



Bulk Carriers from Handsize (20,000DWT) to VLOC (400,000DWT)



Containers from Feeders (600TEU) up to Super Post Panamax (10,000TEU)



PCTC / RORO(10,500DWT) to (10,00CEU) PCTC & RORO Ships



Specialised Vessels: Reefers, Multi-purpose / Heavy Lift Vessels, etc

Newbuilding Contracting

Our contract covers both state-owned & private shipyards in China, allowing us to offer customised solutions that meet clients' specific needs.

State-owned Shipyards includes:



CSSC GROUP

(Hudong-Zhonghua Shipbuilding, Jiangnan Shipyard, Bohai Shipyard, Dalian Shipbuilding Industry Company, Guangzhou Huangpu Shipbuilding and Guangzhou Wenchong Shipyard, etc)



COSCO GROUP

(Dalian, Nantong, Zhoushan, Guangdong)



• Sinotrans-CSC Group

(Jinling, Jiangdong, Qingshan Shipyard)



• Fujian Shipbuilding Industry Group (Mawei, Southeast, Xiamen Shipbuilding)

Newbuilding Contracting

Private-owned Shipyards includes:





• 1st Tier Shipyards New Yangzi and NTS







• Smaller Shipyards Hantong, Huanghai, Zhenjiang Shipyards, etc.

Through our long-standing relationships with reputable Chinese shipyards, we carry out due diligence and monitoring, ensuring that we present the most qualified yards at the most economic prices for each newbuilding project.

Our expertise in technical and commercial matters is recognised worldwide. With a strong presence in China, we carry out due diligence and monitoring, ensuring that we present the most qualifies yards at the most economic prices for each newbuilding project.

Our extensive experience minimises shipowners' risks by providing technical expertise, expert opinions, and valuable lessons learnt, leading to a smooth and successful delivery.

Project Financing



We maintain constant communication with Chinese and Singaporean banks, financial institutes, and leasing companies. This enables us to offer our clients comprehensive financial solutions with the best possible term sheets and conditions.

From securing loans to identifying attractive opportunities and charters, our Shanghai-based team assists clients in all aspects of structuring and financing shipping projects, including offshore and renewables ventures.

Second-hand Tonnage Sale & Purchase



We believes in providing value-added services to all our clients. Throughout the transaction process, we offer guidance on financing and the current market outlook. By strategically planning and employing effective techniques, we assist shipowners in successfully selling and acquiring vessels under the most favorable conditions.

Offshore Projects

We handle both newbuilding and sale & purchase transactions for various types of offshore vessels, including OSVs (PSV, AHTS, Construction Vessel / DSV, Heavylift / Pipe layers), and drilling rigs

Vessel Evaluation

Our specialized team provides professional valuations for both sales and market value. Leveraging our in-depth technical knowledge and years of commercial experience, we guide shipowners toward realistic market values.





