

正 本

檔 號：
保存年限：

海龍二號風電股份有限公司 籌備處 函

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受文者：交通部航港局中部航務中心

發文日期：中華民國 111 年 4 月 14 日

發文字號：海二籌字第 2022041401 號

速別：普通件

密等及解密條件或保密期限：

附件：如說明

主旨：本公司籌備處暨海龍三號風電股份有限公司籌備處所屬之「海龍二號及三號離岸風力發電計畫」，茲委託環球測繪股份有限公司以奧黛麗絲號(MV Polaris Australis)船舶執行海床地質鑽探調查工作，請惠予發佈航行布告。

說明：本公司籌備處暨海龍三號風電股份有限公司籌備處茲委託環球測繪股份有限公司以奧黛麗絲號(MV Polaris Australis)執行旨述之海床地質鑽探調查工作，作業期程預計自 111 年 4 月 20 日起至 111 年 7 月 31 日前完成，實際施工時程須視天候與工程狀況而定。有關旨述海床地質鑽探調查工作預計施工地點、船舶資訊以及緊急連絡窗口之資訊，詳如附件，惠請貴局發佈航行布告。

正本：交通部航港局中部航務中心

副本：

海龍二號風電股份有限公司籌備處

1. Coordinates of wind farm boundary (海域地質鑽探(Geotechnical Campaign)範圍與圖示)

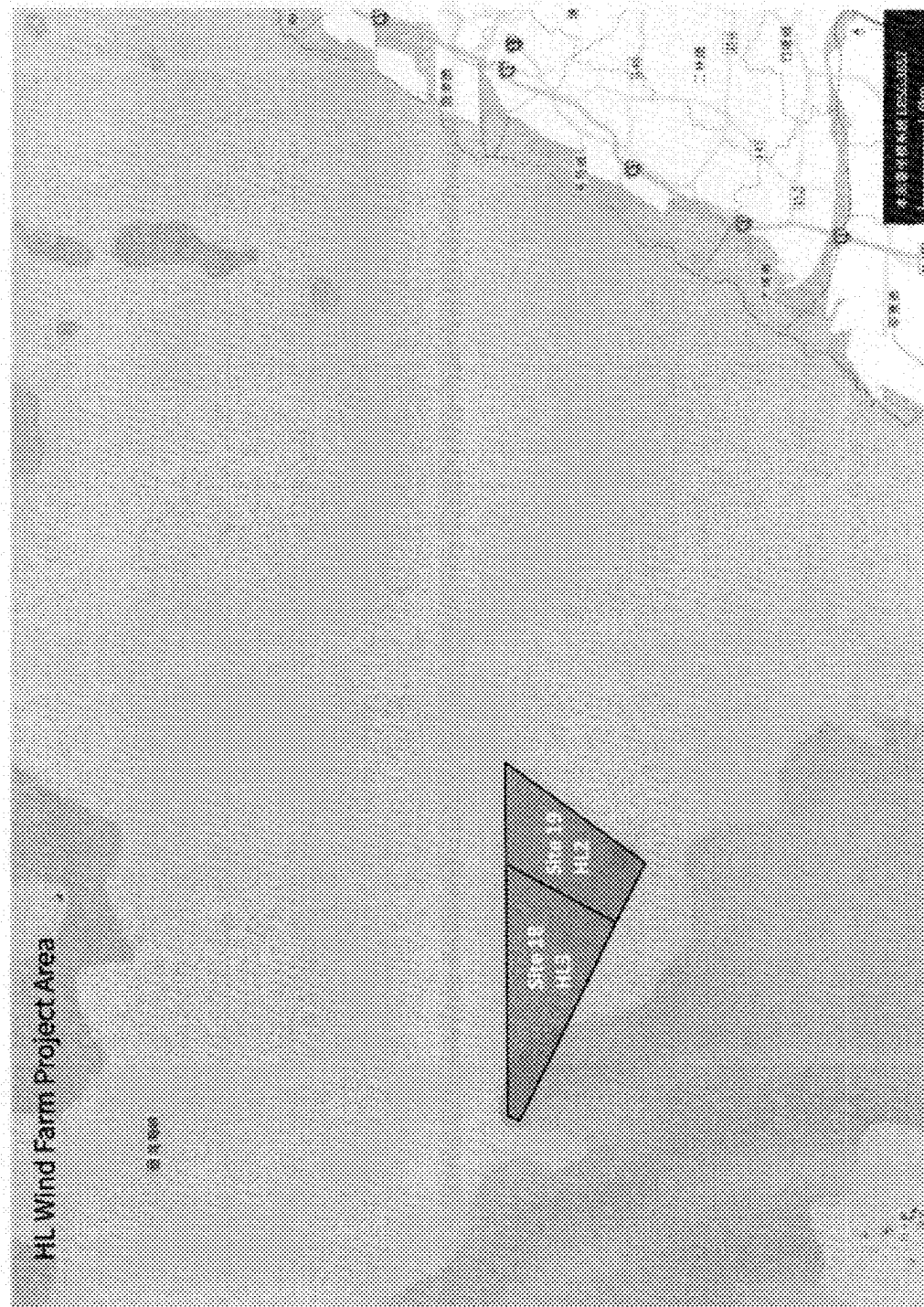


圖 1 海龍二號及海龍三號離岸風場位置示意圖

2. Working area, (施工地點座標)
(座標系統：WGS84)

SITE 18

風場範圍之角點座標 (經緯度)

東經			北緯		
119°	51'	26.1"	24°	2'	38.3"
119°	48'	49.6"	23°	58'	8.2"
119°	40'	34.8"	24°	1'	49.3"
119°	40'	53.3"	24°	2'	33.2"

SITE 19

風場範圍之角點座標 (經緯度)

東經			北緯		
119°	48'	49.6"	23°	58'	8.2"
119°	51'	26.1"	24°	2'	38.3"
119°	55'	40.0"	24°	2'	40.1"
119°	51'	18.7"	23°	57'	1.5"

圖 2 風場範圍之角點座標

3. Vessel specification including vessel name, IMO, Call sign, vessel flag, Port of registry, vessel length, GT, NT (船舶規格, 包含船名, IMO, 呼號, 船舶國籍, 船籍港, 總長, 總噸位, 淨噸位)

船舶名稱 Vessel name	奧黛麗絲號 MV Polaris Australis	總長 Total length	58.30 m
IMO	9459307	船舶認證	CR & DNV GL
船舶國籍 Flag	台灣 (Republic of China)	主要設備	Drilling Derrick 起重設備, Deck Crane
總噸位	2445 噸	淨噸位	1314 噸
船籍港 Registry port	高雄港 Kaohsiung		

VESSEL SPECIFICATION



M/V Polaris Australis

Technical Specification

General

Vessel name	Polaris Australis
Builder / year	2008
Owner	Hongmng Tah Enterprise Co.
Flag	Taiwan (R.O.C.)
Speed	Transit 10 – 12 knots
Call sign	BICJ
Classification	DYNAPOS AM/VAT R +AMS
Port of registry	Kaohsiung
Endurance	Max 30 days
Operational water depth	20 - 200 m

Dimensions

Length over all (L.O.A.)	58.30 m
Beam (mid)	13.80 m
Free board	712 mm
Draft	4.50 m
Displacement	2,445 tons
NRT	394 tons
GRT	1,314 tons
Derrick height	22 m
Moonpool	3.065 m x 2.8 m

Accommodation/Rooms

Crew + Passengers	39
Day room	2
Office	1
Hospital	Yes

Machinery

Main Engine	2 x Cummis 1600 BHP
Main Engine Generators	2 x Cummis 250 kW
Auxiliary Generators	3 x Caterpillar 800 kW
Power Management	Z-power
Propulsion	2 x Kamome CPP
Bow Tunnel Thruster	2 x Schottel 600 kW
Stern Tunnel Thruster	1 x Schottel 600 kW
Emergency Generator	1 x Cummis 48 kW

Capacity

Fuel capacity	500 m ³
Fuel consumption	DP 10 m ³ , Transit 8 m ³
Water capacity	Fresh 120 m ³ / Ballast 8.35 m ³
Water making	18 m ³

Communications

V-sat	KA-band; Internet & Communications Sailor, Sailor Fleet Broadband 500
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Safety

Hospital	1 x 1 bed
Lifeboats	N/A
Life rafts	5 x 20 men, 1 x 25 men
MOB boat	N/A
EPIRB	1 x Jotron
Other aids	80 x Life jackets, 40 x Immersion Suits, 10 x Life buoys

Deck Machinery

Deck Crane 1	1 x 18T SWL Palfinger
Deck Crane 2	1 x 8T SWL Plimsoll
A-Frame	ODIM 18T SWL

Positioning/Navigation

Echosounder	1 x Odom Hydratrac
S-band radar	1 x Furuno FAR-2837S
X-band radar	1 x Furuno FAR-2127
Gyro compass	3 x Raytheon
Automatic pilot	1 x Raytheon / Pilotstar D
Doppler log	1 x Furuno DS-80
GPS	1 x Furuno GP150
ECS	Maxsea Marine
Transporter (SART)	2 x Jotron, 9 Ghz

Drilling System/Seabed Frame Systems

Drilling Derrick	Single mast, 30T SWL
Heave Compensation	Passive, 3 m stroke
Top Drive	2-speed rotary head, 25T hook load
Drill Pipe Length	350 m
Mud Pumps	2 x Gardner Denver FXG Duplex
Mud Mixing Pumps	2 x 32 HP
Mud Tanks	2 x 10 m ³
Drilling Mud Type	Polyacrylamide
Sampling Winch	1.5T @ 50m/min
Head Line Winch	2.5T @ 38m/min
Tail Line Winch	1.5T @ 41m/min
Seabed Frame	1.5 m x 1.5 m x 1.8 m, 10T
Seabed Frame Winch	25T @ 12m/min

Geotechnical System/Laboratory

Downhole	WISON APB Classic
Seabed	Datam Neptune CPS custom built, Piston Corer, Vibrocorer
Seismic/Vane/Coring	Optional upon request
Onboard Laboratory	6 m x 2.4
Sample Storage	1 x 20 ft Reefer Container

Control and Navigation

DP System	Kongsberg K-Pos DP-21
Reference systems	1 x HiPAP Kongsberg USBL, 2 x Fugro SeaStar 9205 DGPS, Kongsberg Seapath 330, Fugro SeaStar 3610
Wind Indicators	3 x Kongsberg MOC 139
Vertical reference system	3 x Kongsberg Seatex MRU-5

4. Picture of Vessel (船舶照片)

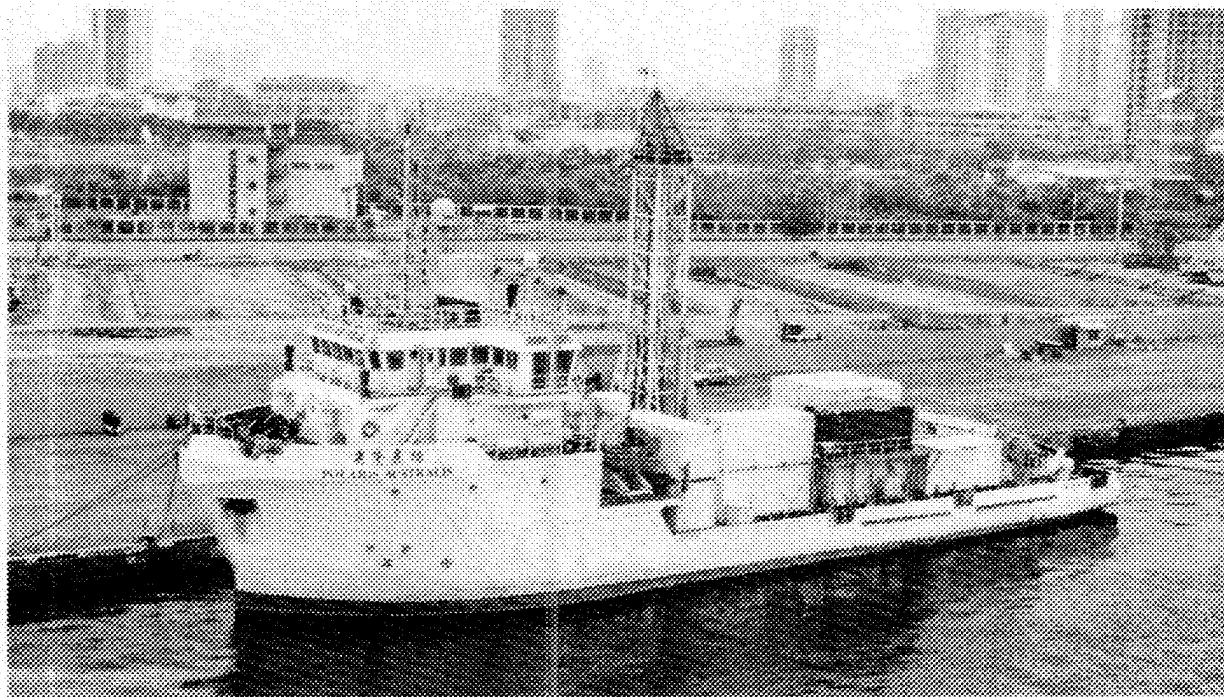


圖3 奧黛麗絲號 船舶照片

5. Emergency contact window, Reps from HL side will be Miguel and Gabriel
(緊急應變聯絡人)

PDE 緊急連絡窗口:

Position	Name	Contact
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