

海龍二號風電股份有限公司 籌備處 函

地址:10488 台北市中山區南京東路三段
168 號 13 樓之 3

承辦人:陳劭宇

電話:0900-841-659

電子信箱:Eric.Chen@hailongoffshorewind.com

43542 臺中市梧棲區中橫十一路 18 號

受文者：交通部航港局中部航務中心

發文日期：中華民國 110 年 7 月 4 日

發文字號：海二籌字第 2022070401 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一案，請查照。

說明：本公司籌備處暨海龍三號風電股份有限公司籌備處辦理旨述海床地質鑽探調查工作，前以 111 年 4 月 14 日海二籌字第 2022041401 函知貴中心原訂作業期程預計於 111 年 7 月 31 日前完成，現因天候不佳導致無法順利於前述時間完成調查工作，擬向貴中心申請展延至 111 年 8 月 31 日，其餘調查工作內容、範圍及使用船舶均與前次相同(詳附件)，請貴局惠予同意，俾利本案調查工作之進行。

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		

M/V Polaris Australis

Technical Specification

General		Safety	
Vessel name	Polaris Australis	Hospital	1 x 1 bed
Builder / year	2008	Lifeboats	N/A
Owner	Hornng Tah Enterprise Co.	Life rafts	5 x 20 men, 1 x 25 men
Flag	Taiwan (R.O.C.)	MOB boat	N/A
Speed	Transit 10 – 12 knots	EPIRB	1 x Jotron
Call sign	BICJ	Other aids	80 x Life jackets, 40 x Immersion Suits, 10 x Life buoys
Classification	DYNAPOS AM/AT R +AMS		
Port of registry	Kaohsiung		
Endurance	Max 30 days		
Operational water depth	20 - 200 m		
Dimensions		Deck Machinery	
Length over all (L.O.A.)	58.30 m	Deck Crane 1	1 x 18T SWL Palfinger
Beam (mid)	13.80 m	Deck Crane 2	1 x 8T SWL Plimsoll
Free board	712 mm	A-Frame	ODIM 18T SWL
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		Positioning/Navigation	
Crew + Passengers	39	Echosounder	1 x Odom Hydratrac
Day room	2	S-band radar	1 x Furuno FAR-2837S
Office	1	X-band radar	1 x Furuno FAR-2127
Hospital	Yes	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
Machinery		Drilling System/Seabed Frame Systems	
Main Engine	2 x Cummis 1600 BHP	Drilling Derrick	Single mast, 30T SWL
Main Engine Generators	2 x Cummis 250 kW	Heave Compensation	Passive, 3 m stroke
Auxiliary Generators	3 x Caterpillar 800 kW	Top Drive	2-speed rotary head, 25T hook load
Power Management	Z-power	Drill Pipe Length	350 m
Propulsion	2 x Kamome CPP	Mud Pumps	2 x Gardner Denver FXG Duplex
Bow Tunnel Thruster	2 x Schottel 600 kW	Mud Mixing Pumps	2 x 32 HP
Stern Tunnel Thruster	1 x Schottel 600 kW	Mud Tanks	2 x 10 m ³
Emergency Generator	1 x Cummis 48 kW	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
Capacity		Geotechnical System/Laboratory	
Fuel capacity	500 m ³	Downhole	WISON APB Classic
Fuel consumption	DP 10 m ³ , Transit 8 m ³	Seabed	Datam Neptune CPS custom built, Piston Corer, Vibrocorer
Water capacity	Fresh 120 m ³ / Ballast 8.35 m ³	Seismic/Vane/Coring	Optional upon request
Water making	18 m ³	Onboard Laboratory	6 m x 2.4
		Sample Storage	1 x 20 ft Reefer Container
Communications		Control and Navigation	
V-sat	KA-band; Internet & Communications Sailor, Sailor Fleet Broadband 500	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
PDE Director	Huang Hsin-Chih	pde@pde-offshore.com Mob: +886 937-004-357
PDE Project Manager	Sam Shih	sam.shih@pde-offshore.com Mob: +886 928-160-357
	Jo Ho	jo.ho@pde-offshore.com Mob: +886 905-770-717
PDE Project Lead	Jason Huang	jasonthuang@pde-offshore.com Mob: +886 921-690-705
DGD Project Manager	Jason Hsi	yihuan.hsi@dragon-geosciences.com Mob: +886-910-065-036
DGD Chief Operations Officer	Kelvin Chow	kelvin.chow@dragon-geosciences.com Mob: +886 913-836-501
PA Party Chief	Harris Sharif	Australis.pc@dragon-geosciences.com Mob: +60-12-390-7091
PA Master	Liu, Wen-Jui	Australis.bridge@dragon-geosciences.com Mob: +886-910-807-526 Call Sign: BICJ (FBB) 870+773700957 (VSAT) 852-5806-7728 852-5806-7729 852-5806-7730
HSE Officer	Patrick Yen	Kuoching.yen@dragon-geosciences.com Mob: +886-937-630-200

海龍(Hai Long)聯絡窗口:

Position	Name	Contact
Site Investigation Engineer	Gabriel Felipe Nino 凡凱培	Gabriel.Felipe@hailongoffshorewind.com Mob: +886 900 841 224
Senior Project Engineer	Brendan Song 宋法傑	brendan.song@hailongoffshorewind.com Mob: +886 900 841 630
Permitting Director	Chin-Yu Wu 吳晉宇	chinyu.wu@hailongoffshorewind.com Mob: +886 900 841 600