

正 本

檔 號:

保存年限:

年

加能離岸風力發電股份有限公司 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 110 年 08 月 30 日

發文文號：加能籌字第 20210830001 號

附 件：如說明

主旨：本公司籌備處「加能離岸風力發電計畫」執行之海床地球物理調查工作，因天候因素影響，致調查工作需更新時程，敬請 貴中心惠予更新航行布告。

說明：

- 一、承本公司籌備處加能籌字第 20210618001 號函。
- 二、因天候因素影響，海床地球物理調查工作仍在進行中，預計展延至 110 年 10 月 31 日結束。
- 三、調查工作之預計施工地點、船舶資訊以及緊急連絡窗口等資訊，詳如附件。
- 四、敬請 貴中心惠予更新航行布告。



正本：交通部航港局中部航務中心

副本：

1. Coordinates of wind farm boundary (海域地球物理(Geophysical Campaign)範圍與圖示)

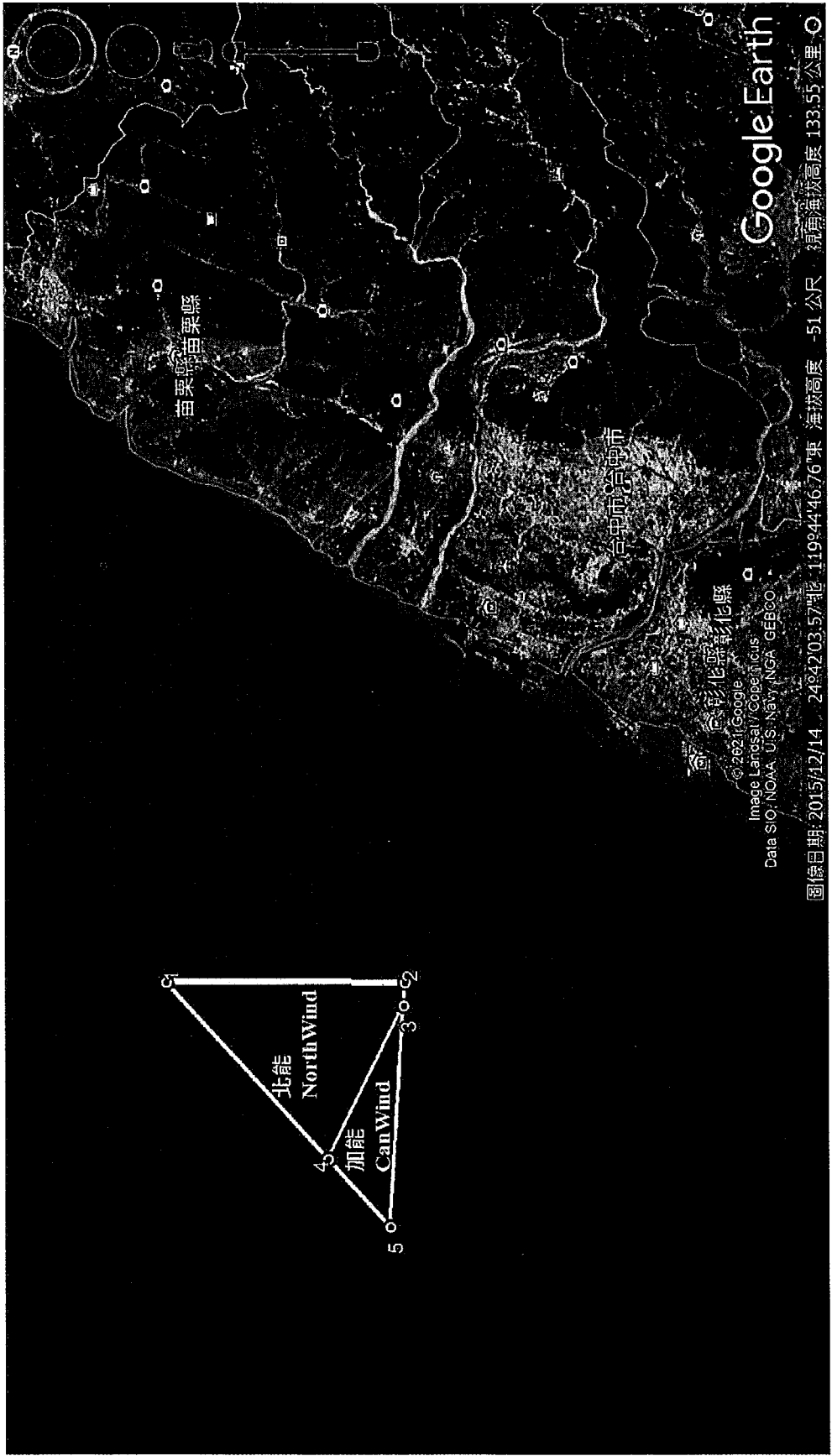


圖 1 北能與加能離岸風場位置示意圖

2. Working area, (施工地點座標)

(座標系統：WGS84)

SITE NorthWind (北能風場)

	經緯度座標 WGS84			
	(deg)		(deg, min, sec)	
編號	LONG(E)	LAT(N)	LONG(E)	LAT(N)
1	120.165783	24.581287	120°09'56.82"	24°34'52.63"
2	120.165964	24.353234	120°09'57.47"	24°21'11.64"
3	120.141901	24.354471	120°08'30.84"	24°21'16.10"
4	119.981372	24.427078	119°58'52.94"	24°25'37.48"

SITE CanWind (加能風場)

	經緯度座標 WGS84			
	(deg)		(deg, min, sec)	
編號	LONG(E)	LAT(N)	LONG(E)	LAT(N)
3	120.141901	24.354471	120°08'30.84"	24°21'16.10"
4	119.981372	24.427078	119°58'52.94"	24°25'37.48"
5	119.910583	24.367428	119°54'38.10"	24°22'02.74"

表 1 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	燦拉麗絲 2 號 SOLARIS II	總長 Total length	18.72 m
IMO	-	船舶認證	CR
船舶國籍 Flag	台灣 (Republic of China)	淨噸位	27.58 噸
總噸位	91.93 噸	船籍港 Registry port	高雄港 Kaohsiung



TECHNICAL SPECIFICATIONS R/V SOLARIS II

Principle Particulars

Owner	Dragon Prince Hydro-Survey Enterprise Co.
Length Overall	20.08 m
Beam	8.00 m
Depth	3.00 m
Draft Designed	1.80 m
Draft Maximum	2.50 m
Deadweight	30 Tonnes
Gross Tonnage	91.93 Tonnes
Net Tonnage	27.58 Tonnes
MMSI	416XXXXX
Official Number	014634
Port of Registry	KOAHSIUNG
Flag	TAIWAN
Call sign	BR3982
Construction Year	2003

Machinery

Main-Engines	Daewoo V180TIH 250KW x 2
Propellers	2 x FIXED PITCH Props
Rudders	1 x MAROL JAPAN
Generators	Daewoo 35KW x 2
Hydraulic Pump Engine	Daewoo 90KW x 1

Capability

Type of Oil	MGO
Fuel Oil	32 Tons
Potable Water	5 Tons
Max. Speed	10.28 Knots
Economical Speed	9.00 Knots
Range	15 Days

Deck Machinery & Equipment

Deck Crane	Palfinger 10002 2T/9.0 m
A-Frame	3T/3.5 m
Winch	5HP/600 m
Boom Arm	3.5 m

Accommodation Superstructure

Total	12 men
02 x Bunk Cabins	2 x Cabins (6 person)
Air Conditioning for entire accommodation spaces	

Navigation and Communication

Radars	1 x Furuno FAR-2127 96NM X-band 1 x Furuno Navnet 64NM X-band
DGPS	1 x Fugro SeaSTAR 8200-HP DGPS 1 x Kongsberg Seapath 330
Chartplotters	1 x SEIWA Explorer III
AIS	1 x JRC JHS182
Echo Sounder	1 x koden CVS-126
Anemometer	1 x Walker 2050 MK2
Magnetic compass	1 x KVH Azimuth 1000
GPS Compass	1 x Simrad DGPS Compass H550
Auto Pilot	1 x Marol
NAVTEX	1 x Sailor NAVTEX
VHF/DSC	2 x ICOM VHF
Two-way Radio	4 x SAILOR SP3515 Portable VHF
VSAT	1 x JRC 60cm KA-band
FBB	1 x Sailor FBB500
Vessel monitoring system	2 x SAILOR TT-30265
EPIRB	1 x Samyung SEP-500
SART	2 x Jotron SART

Survey Equipment

DGPS	1 x Fugro Seastar 8200-HP (Accuracy: 10cm RMS)
Vessel Reference System	Kongsberg Seapath 330 + MRU 5 (Accuracy: Heading 0.1dg; Pitch; Roll: 0.02dg/Heave 5cm)
USBL Acoustic Positioning	Kongsberg MicroPAP 200 USBL
Subsea Inertial Navigation System	Kongsberg MRU-5
Multi-Beam Echo Sounder	Kongsberg EM2040C Dual Head
Side Scan Sonar	EdgeTech 4200
Magnetometer	Geometrics G-882-TVG
Sound Velocity Profiler	AML Minos SVP
Data Processing Software	Sippican XBT CARIS

(Below portable survey equipment depend on requirement)
 Seismic Source.....Geo-Source 200 Light Weight
 Seismic Receiver.....Geo-Sense Multi-Channel Streamer
 Seismic Acquisition.....Multi-Trace 24
 ROV.....SAAB Falcon DT (1000m); Optional 6m Vibro Corer

Life Saving and Fire Fighting

Rescue Boat	2 Unit x 25 person
ALL LSA and FFA installed are in compliance to SOLAS	

4. Picture of Vessel (船舶照片)



圖 2 燦拉麗絲 2 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 Project Manager	Matthew Lai	matthew@egssurvey.com Mob: +852 9198 4142
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PDE Party Chief	Chou Chia-I	chouchiai@gmail.com Mob: +886 976 276 075
Supervisor of Vessel Management	Renee Juang	Mob: +886-934275256
Office Administrator	Mr. Wen	Mob: +886-981926229
MV Solaris II Vessel Captain	Lu, Han Hua	MMSI 416005437 Call sign BR3982 - AIS 4786 BX3ACC 衛星電話號碼 (Satellite Phone) FBB 00 + 870 + 773701193 VSAT (852) 58267695 (Survey Room) (852) 58067696 (Bridge) 公司 (Office) +886 75717056
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