



# FORMOSA I 海洋竹南離岸風力發電場

## 海洋風場離岸作業之船舶與作業相關資訊

- 海洋風場海域及海纜定期調查

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1	09 April 2026	Implement	Tillie Wang	Leon Han	Ryan Chang

# 1 文件目的 INTRODUCTION

跟據航港局公布之航路標識設置技術規範，任何內容涉及航海安全之最新資訊，如導航標誌、礙航危險物、重要新測水深等之訂正，應依規定提送相關資訊以利航政機關發布航船布告。本文包含航船布告所需之相關內容，若有資訊變更，將與航政機關保持更新。

According to “Technical Specifications Regarding Deployment Of Aids To Navigation” published by MPB, any updates related to maritime safety, such as navigational markers, navigational hazards, important new depth measurements, etc., should be submitted in accordance with regulations to facilitate the issuance of NtM by MPB. This document includes the relevant content required for the NtM, and any information changes will be kept updated with MPB.

# 2 作業範圍 WORK AREA

## 2.1 作業區域圖 Layout of Work Area

下圖 1 可見其風場範圍（黑色框線內）以及海纜路徑區域，關於海洋風場範圍、風機點位及海纜待測位置的座標請詳見表格 1 至表格 4。The work area, as shown in below Figure 1 (outlined in black), including the wind farm boundary and the cable route area. For detailed coordinates of the wind farm boundary, turbine locations, and cable sections, please refer to Table 1 to Table 4.

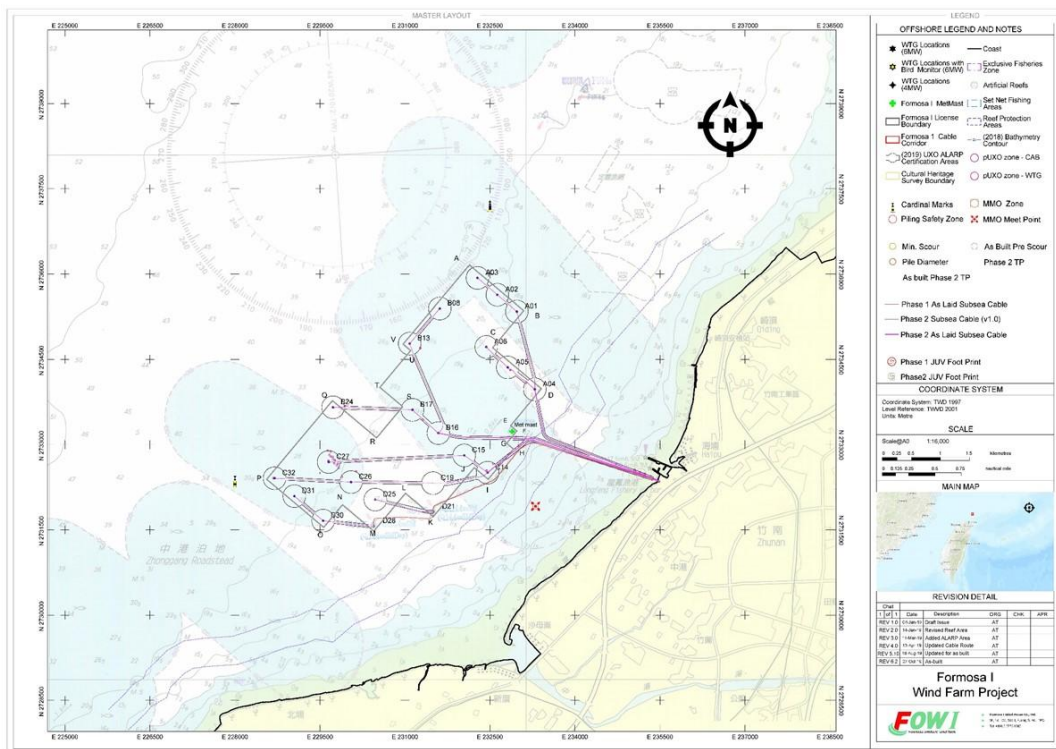


圖 1 - 風場位置圖

Figure 1 - Offshore Windfarm Location

## 2.2 作業區域邊界座標資訊 Work Area Boundary Coordinates

表格 1 風場邊界座標資訊

Table 1– Windfarm Site Boundary Coordinates

編號 No.	二度分帶 TWD97		度分 WGS84 (D° M.mmm')		度分秒 WGS84 (D° M'S'')	
	Easting	Northing	經度 Long.	緯度 Lat.	經度 Long.	緯度 Lat.
A	232136.66	2736160.63	120° 49.405'	24° 43.950'	120° 49' 24.280"	24° 43' 56.993"
B	233095.20	2735356.31	120° 49.974'	24° 43.515'	120° 49' 58.426"	24° 43' 30.889"
D	233407.93	2733982.23	120° 50.160'	24° 42.771'	120° 50' 9.614"	24° 42' 46.238"
H	232915.52	2732922.13	120° 49.869'	24° 42.196'	120° 49' 52.140"	24° 42' 11.765"
K	231499.35	2731731.46	120° 49.030'	24° 41.550'	120° 49' 1.808"	24° 41' 33.004"
O	229566.23	2731545.07	120° 47.884'	24° 41.448'	120° 47' 53.045"	24° 41' 26.858"
P	228559.91	2732389.48	120° 47.287'	24° 41.904'	120° 47' 17.196"	24° 41' 54.254"

表格 2 風機座標資訊

Table 2– WTG Coordinates

編號 No.	二度分帶 TWD97		度分 WGS84 (D° M.mmm')		度分秒 WGS84 (D° M'S'')	
	Easting	Northing	經度 Long.	緯度 Lat.	經度 Long.	緯度 Lat.
A01	232974.1	2735341.1	120° 49.902'	24° 43.506'	120° 49' 54.116"	24° 43' 30.389"
A02	232630.1	2735635.2	120° 49.698'	24° 43.666'	120° 49' 41.862"	24° 43' 39.936"
A03	232279.9	2735932.1	120° 49.490'	24° 43.826'	120° 49' 29.388"	24° 43' 49.573"
A04	233291.2	2733972.3	120° 50.091'	24° 42.765'	120° 50' 5.460"	24° 42' 45.911"
A05	232812.9	2734358.0	120° 49.807'	24° 42.974'	120° 49' 48.425"	24° 42' 58.432"
A06	232435.0	2734718.9	120° 49.583'	24° 43.169'	120° 49' 34.961"	24° 43' 10.146"
B08	231614.9	2735394.3	120° 49.096'	24° 43.534'	120° 49' 5.747"	24° 43' 32.063"
B13	231084.3	2734776.9	120° 48.782'	24° 43.200'	120° 48' 46.894"	24° 43' 11.971"
B16	231588.9	2733203.6	120° 49.082'	24° 42.348'	120° 49' 4.926"	24° 42' 20.858"
B17	231133.1	2733610.8	120° 48.811'	24° 42.568'	120° 48' 48.686"	24° 42' 34.074"
B24	229731.3	2733656.0	120° 47.980'	24° 42.591'	120° 47' 58.808"	24° 42' 35.478"
C14	232458.0	2732506.5	120° 49.598'	24° 41.971'	120° 49' 35.879"	24° 41' 58.236"
C15	232045.9	2732810.1	120° 49.353'	24° 42.135'	120° 49' 21.202"	24° 42' 8.086"
C19	231493.7	2732321.5	120° 49.026'	24° 41.870'	120° 49' 1.578"	24° 41' 52.181"
C26	230049.0	2732340.2	120° 48.170'	24° 41.879'	120° 48' 10.177"	24° 41' 52.724"
C27	229654.1	2732694.2	120° 47.935'	24° 42.070'	120° 47' 56.112"	24° 42' 4.212"
C32	228699.0	2732408.2	120° 47.369'	24° 41.915'	120° 47' 22.146"	24° 41' 54.870"
D21	231490.56	2731816.09	120° 49.025'	24° 41.596'	120° 49' 1.492"	24° 41' 35.754"
D25	230475.9	2732032.1	120° 48.423'	24° 41.712'	120° 48' 25.384"	24° 41' 42.731"
D28	230439.99	2731566.23	120° 48.402'	24° 41.460'	120° 48' 24.127"	24° 41' 27.586"
D30	229556.1	2731662.3	120° 47.878'	24° 41.511'	120° 47' 52.678"	24° 41' 30.667"
D31	229048.1	2732093.1	120° 47.576'	24° 41.744'	120° 47' 34.580"	24° 41' 44.646"

表格 3 風場範圍內海纜座標

Table 3- Inter Array Coordinates

第一群海纜 String A						
編號 No.	二度分帶 TWD97		度分 WGS84 (D° M.mmm')		度分秒 WGS84 (D° M'S'')	
	Easting	Northing	經度 Long.	緯度 Lat.	經度 Long.	緯度 Lat.
KA0+000	235504.642	2732346.822	120° 51.405'	24° 41.886'	120° 51' 24.278"	24° 41' 53.160"
KA0+076	235436.941	2732382.274	120° 51.365'	24° 41.905'	120° 51' 21.870"	24° 41' 54.308"
KA2+135	233497.534	2733073.605	120° 50.214'	24° 42.279'	120° 50' 12.840"	24° 42' 16.711"
KA2+173	233472.273	2733102.247	120° 50.199'	24° 42.294'	120° 50' 11.940"	24° 42' 17.640"
KA2+993	233291.112	2733902.075	120° 50.091'	24° 42.727'	120° 50' 5.460"	24° 42' 43.628"
KA3+000	233291.12	2733908.536	120° 50.091'	24° 42.731'	120° 50' 5.460"	24° 42' 43.841"
KA3+063	233290.915	2733971.914	120° 50.091'	24° 42.765'	120° 50' 5.449"	24° 42' 45.900"
KA3+133	233291	2734042.061	120° 50.091'	24° 42.803'	120° 50' 5.449"	24° 42' 48.179"
KA4+500	232967.191	2735369.707	120° 49.898'	24° 43.522'	120° 49' 53.872"	24° 43' 31.321"
KA4+541	232957.966	2735409.099	120° 49.892'	24° 43.543'	120° 49' 53.540"	24° 43' 32.599"
KA4+939	232630.03	2735635.022	120° 49.698'	24° 43.665'	120° 49' 41.858"	24° 43' 39.929"
KA5+398	232279.997	2735932.051	120° 49.490'	24° 43.826'	120° 49' 29.392"	24° 43' 49.570"
Ka0+070	233220.937	2733971.999	120° 50.049'	24° 42.765'	120° 50' 2.962"	24° 42' 45.900"
Ka1+155	232434.976	2734719.051	120° 49.583'	24° 43.169'	120° 49' 34.961"	24° 43' 10.150"
第二群海纜 String B						
KB4+066	231589.049	2733203.071	120° 49.082'	24° 42.347'	120° 49' 4.930"	24° 42' 20.840"
Kb0+070	231541.057	2733253.898	120° 49.054'	24° 42.375'	120° 49' 3.220"	24° 42' 22.489"
Kb0+500	231245.53	2733566.263	120° 48.878'	24° 42.544'	120° 48' 52.690"	24° 42' 32.630"
Kb0+562	231202.871	2733610.932	120° 48.853'	24° 42.568'	120° 48' 51.170"	24° 42' 34.081"
Kb2+034	229731.098	2733656.078	120° 47.980'	24° 42.591'	120° 47' 58.801"	24° 42' 35.482"
KB0+000	235502.67	2732343.132	120° 51.403'	24° 41.884'	120° 51' 24.210"	24° 41' 53.041"
KB0+076	235435.251	2732378.891	120° 51.363'	24° 41.903'	120° 51' 21.809"	24° 41' 54.200"
KB2+357	233275.545	2733111.713	120° 50.082'	24° 42.299'	120° 50' 4.942"	24° 42' 17.939"
KB2+500	233132.768	2733111.27	120° 49.998'	24° 42.299'	120° 49' 59.858"	24° 42' 17.921"
KB4+000	231634.517	2733155.015	120° 49.109'	24° 42.321'	120° 49' 6.550"	24° 42' 19.282"
KB4+066	231589.049	2733203.071	120° 49.082'	24° 42.347'	120° 49' 4.930"	24° 42' 20.840"
KB4+136	231639.984	2733250.998	120° 49.112'	24° 42.373'	120° 49' 6.740"	24° 42' 22.399"
KB4+500	231515.371	2733592.975	120° 49.038'	24° 42.558'	120° 49' 2.291"	24° 42' 33.509"
KB5+690	231107.972	2734711.259	120° 48.796'	24° 43.164'	120° 48' 47.740"	24° 43' 9.840"
KB5+760	231083.893	2734776.824	120° 48.781'	24° 43.200'	120° 48' 46.879"	24° 43' 11.971"
KB5+830	231149.686	2734801.039	120° 48.820'	24° 43.213'	120° 48' 49.219"	24° 43' 12.760"
KB6+514	231571.934	2735338.88	120° 49.070'	24° 43.504'	120° 49' 4.220"	24° 43' 30.259"
KB6+584	231615.001	2735393.894	120° 49.096'	24° 43.534'	120° 49' 5.750"	24° 43' 32.048"
第三群海纜 String C						
KC0+000	235500.699	2732339.75	120° 51.402'	24° 41.882'	120° 51' 24.142"	24° 41' 52.930"
KC0+076	235433.279	2732375.201	120° 51.362'	24° 41.901'	120° 51' 21.740"	24° 41' 54.082"
KC2+362	233258.923	2733078.813	120° 50.073'	24° 42.281'	120° 50' 4.351"	24° 42' 16.870"
KC2+467	233153.801	2733072.787	120° 50.010'	24° 42.278'	120° 50' 0.611"	24° 42' 16.672"
KC3+364	232458.031	2732506.015	120° 49.598'	24° 41.970'	120° 49' 35.879"	24° 41' 58.222"
KC3+434	232403.728	2732461.781	120° 49.566'	24° 41.946'	120° 49' 33.949"	24° 41' 56.782"
KC3+500	232339.069	2732450.787	120° 49.527'	24° 41.940'	120° 49' 31.649"	24° 41' 56.422"
KC4+286	231563.986	2732320.117	120° 49.068'	24° 41.869'	120° 49' 4.080"	24° 41' 52.141"
KC4+356	231494.001	2732321.133	120° 49.026'	24° 41.870'	120° 49' 1.589"	24° 41' 52.170"

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KC4+426	231424.015	2732321.842	120° 48.985'	24° 41.870'	120° 48' 59.101"	24° 41' 52.192"
KC5+871	229979.05	2732341.081	120° 48.128'	24° 41.879'	120° 48' 7.690"	24° 41' 52.750"
KC7+153	228699.15	2732407.903	120° 47.369'	24° 41.914'	120° 47' 22.150"	24° 41' 54.859"
KC3+364	232458.031	2732506.015	120° 49.598'	24° 41.970'	120° 49' 35.879"	24° 41' 58.222"
Kc0+070	232413.972	2732560.219	120° 49.572'	24° 42.000'	120° 49' 34.309"	24° 41' 59.978"
Kc0+445	232102.256	2732768.289	120° 49.387'	24° 42.112'	120° 49' 23.210"	24° 42' 6.728"
Kc0+500	232057.89	2732801.266	120° 49.361'	24° 42.130'	120° 49' 21.630"	24° 42' 7.801"
Kc0+515	232046.097	2732809.896	120° 49.353'	24° 42.135'	120° 49' 21.209"	24° 42' 8.078"
Kc0+585	231989.657	2732851.503	120° 49.320'	24° 42.157'	120° 49' 19.200"	24° 42' 9.428"
Kc2+926	229654.086	2732693.825	120° 47.935'	24° 42.070'	120° 47' 56.108"	24° 42' 4.201"
第四群海纜 String D						
KD0+000 ~ KD5+777	235499.009	2732336.06	120° 51.401'	24° 41.880'	120° 51' 24.080"	24° 41' 52.811"
	235515.629	2732371.731	120° 51.411'	24° 41.900'	120° 51' 24.671"	24° 41' 53.970"
	233260.292	2733048.968	120° 50.073'	24° 42.265'	120° 50' 4.402"	24° 42' 15.901"
	233209.967	2733035.184	120° 50.043'	24° 42.258'	120° 50' 2.609"	24° 42' 15.451"
	232587.447	2732381.865	120° 49.675'	24° 41.903'	120° 49' 40.490"	24° 41' 54.190"
	231508.643	2731919.001	120° 49.035'	24° 41.652'	120° 49' 2.129"	24° 41' 39.098"
	231473.02	2731764.295	120° 49.014'	24° 41.568'	120° 49' 0.869"	24° 41' 34.069"
	230460.978	2731663.847	120° 48.414'	24° 41.513'	120° 48' 24.869"	24° 41' 30.761"
KD5+777	230440.04	2731566.348	120° 48.402'	24° 41.460'	120° 48' 24.131"	24° 41' 27.589"
KD6+596	229625.576	2731653.665	120° 47.919'	24° 41.507'	120° 47' 55.151"	24° 41' 30.390"
KD6+666	229555.879	2731662.074	120° 47.878'	24° 41.511'	120° 47' 52.670"	24° 41' 30.660"
KD6+736	229486.463	2731670.176	120° 47.837'	24° 41.515'	120° 47' 50.201"	24° 41' 30.919"
KD7+346	229048.045	2732092.942	120° 47.576'	24° 41.744'	120° 47' 34.580"	24° 41' 44.639"
Kd0+070	231420.527	2731816.052	120° 48.983'	24° 41.596'	120° 48' 59.000"	24° 41' 35.750"
Kd1+039	230476.112	2732032.096	120° 48.423'	24° 41.712'	120° 48' 25.391"	24° 41' 42.731"

表格 4 風場範圍外海纜座標

Table 4- Export Coordinates

編號 No.	二度分帶 TWD97		度分 WGS84 (D° M.mmm')		度分秒 WGS84 (D° M'S'')	
	Easting	Northing	經度 Long.	緯度 Lat.	經度 Long.	緯度 Lat.
C-N2	233407.93	2733982.23	120° 50.160'	24° 42.771'	120° 50' 9.614"	24° 42' 46.238"
C-N3	233535.68	2733275.21	120° 50.237'	24° 42.388'	120° 50' 14.190"	24° 42' 23.263"
C-N5	235182.25	2732593.05	120° 51.213'	24° 42.019'	120° 51' 12.802"	24° 42' 1.152"
C-N6	235408.19	2732398.66	120° 51.347'	24° 41.914'	120° 51' 20.848"	24° 41' 54.841"
C-S5	232645.60	2732298.09	120° 49.709'	24° 41.858'	120° 49' 42.564"	24° 41' 51.468"
C-S6	233185.68	2732865.00	120° 50.029'	24° 42.165'	120° 50' 1.752"	24° 42' 9.918"

### 3 作業時程 SCHEDULE

預定作業時程 自 2026/4/15 起至 2025/9/30 止。

Expected operation schedule as below:

編號 No.	起始時間 From	結束時間 To	作業內容 Description
1.	2026/04/15	2026/05/15	風機周遭海域地形調查
2.	2026/07/01	2026/09/30	風機周遭海域地形調查
3.			
4.			
5.			
6.			

備註 Remark:

1. 上列作業時間及作業內容供參考(實際作業期間將隨作業進度及海象而調整)  
The above is for information only. The actual schedule will be changed as the weather and situation dictates
2. 上列字體反灰之作業已完成。  
Abovementioned work in grey are the completed ones.

## 4 船舶基本資料 VESSEL INFORMATION

本節列出本案所潛在可能使用之船隻。 This section lists the vessels potentially to be used.

### 4.1 POLARIS 寶拉麗絲

船名 Vessel Name: POLARIS 寶拉麗絲	
船籍港 Home Port	高雄港
總噸數 Gross Tonnage	275 噸
船長 LOA	36.98 m
船寬 Width	6.80 m
IMO	9571727
MMSI	416435000
船舶外觀照片 Vessel Photo	
	

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## 4.2 Dragon Prince No. 2 龍王子 2 號

船名 Vessel Name: Dragon Prince No. 2 龍王子 2 號	
船籍港 Home Port	高雄港
總噸數 Gross Tonnage	7.14 噸
船長 LOA	10.20 m
船寬 Width	2.55 m
MMSI	416008017
船舶號數 Official No	928053
電臺呼號 Call Sign	BR4533

船舶外觀照片 Vessel Photo



## 5 特殊設備 SPECIFIC EQUIPMENT

### 5.1 POLARIS 寶拉麗絲

編號 No.	設備 Equipment	型號 Spec.	用途 Purpose
1.	GNSS 接收器 GNSS Receiver	Septentrio AsteRx-M3	位置定位 Positioning (Surface)
2.	GNSS 接收器 GNSS Receiver	Trimble BD982	位置定位 Positioning (Surface)
3.	GNSS 接收器 GNSS Receiver	Applanix POSMV	位置定位 Positioning (Surface)
4.	GNSS 接收器 GNSS Receiver	Kongsberg HiPAP 350	位置定位 Positioning (Under Positioning)
5.	動態感測器 Motion Sensor	Applanix POSMV	動態補償 Motion Correction
6.	CTD / 聲速剖面儀 CTD / SVP	Valeport Swift SVP	水質與聲速資料 CTD & Sound Velocity
7.	CTD / 聲速剖面儀 CTD / SVP	AML micro SV	水質與聲速資料 CTD & Sound Velocity
8.	CTD / 聲速剖面儀 CTD / SVP	AML -3 LGR	水質與聲速資料 CTD & Sound Velocity
9.	CTD / 聲速剖面儀 CTD / SVP	AML minus X SVP	水質與聲速資料 CTD & Sound Velocity
10.	多音束測深機 Multibeam Echosounder	Kongsberg EM2040	水深資料 Bathymetry
11.	側掃聲納 Side Scan Sonar	EdgeTech 4205 (三頻)	海床地貌與障礙物影像 Seabed Imagery

### 5.2 Dragon Prince No. 2 龍王子 2 號

編號 No.	設備 Equipment	型號 Spec.	用途 Purpose
1.	GNSS 接收器 GNSS Receiver	Septentrio AsteRx-M3	位置定位 Positioning
2.	GNSS 接收器 GNSS Receiver	Trimble BD982	位置定位 Positioning
4.	動態感測器 Motion Sensor	Applanix POSMV	動態補償 Motion Correction
5.	CTD / 聲速剖面儀 CTD / SVP	Valeport Swift SVP	水質與聲速資料 CTD & Sound Velocity
6.	CTD / 聲速剖面儀 CTD / SVP	AML micro SV	水質與聲速資料 CTD & Sound Velocity
7.	CTD / 聲速剖面儀 CTD / SVP	AML-3 LGR	水質與聲速資料 CTD & Sound Velocity
8.	CTD / 聲速剖面儀 CTD / SVP	AML minus X SVP	水質與聲速資料 CTD & Sound Velocity
9.	多音束測深機 Multibeam Echosounder	Norbit B51S	水深資料 Bathymetry
10.	地層剖面儀 (SBP)	Kraken Robotics' Sub-Bottom Imaging (SBI)	海床剖面資料 Seabed profile data
11.	地層剖面儀 (SBP)	Innomar Medium 100	海床剖面資料 Seabed profile data

## 6 緊急聯絡人 EMERGENCY CONTACTS

### 6.1 專案公司 Project company: 海洋發電股份有限公司 Formosa 1

職位 Position	公司 Company	姓名 Name	電話 Phone Number
海事協調中心 MCC	海洋 Formosa 1	海事協調中心 MCC	+886 905 985 106 +886 2 7756 2756
專案經理 Project Manager	海洋 Formosa 1	汪庭婷 Tillie Wang	+886 932 821 330 +886 937 657 841
海事工程師 Marine Engineer	海洋 Formosa 1	韋孜采 Belle Wei	+886 918 224 632

### 6.2 海事工程公司 Contractor: [Click here to entry company name](#)

職位 Position	公司 Company	姓名 Name	電話 Phone Number
專案經理 Project Manager	鉦大企業有限公司 Dragon Drilling	周佳毅 Chiai Chow	+886 976 276 075
港口事務窗口 Port Affairs	鉦大企業有限公司 Dragon Drilling	莊惠如 Renee Juang	+886 934 275 256

- 電話號碼不能因人員輪班而變更。The phone number cannot vary based on personnel shifts.

### 6.3 船舶營運商 Vessel Operator: [Click here to entry company name](#)

職位 Position	公司 Company	姓名 Name	電話 Phone Number
船舶公務電話 Vessel Duty Phone	鉦大企業有限公司 Dragon Drilling	(1) 寶拉麗絲 Polaris 龍王子 2 號 Dragon Prince No. 2	(1) +886 919 585 983 +886 980 049 101
船舶衛星電話 Vessel Satellite Phone	鉦大企業有限公司 Dragon Drilling	(1) 寶拉麗絲 Polaris 龍王子 2 號 Dragon Prince No. 2	(1) +65 3125 6482 +881 632 661 265
專案經理 Package Manager	鉦大企業有限公司 Dragon Drilling	周佳毅 Chiai Chow	+886 976 276 075
海上事務聯絡人 Contact of Offshore Task	鉦大企業有限公司 Dragon Drilling	吳耀宇 Yaoyu Wu	+886 912 723 322
船務代理 Agency	(1) 安舫船務 ACME Shipping Agency Co., Ltd. 天文海船務 Howson Shipping Agencies Co., Ltd.	(1) 陳進成 Chin-Cheng Chen 江雅梅 YA-MEI CHIANG	(1) +886 978 908 176 +886 926 822 263

- 電話號碼不能因人員輪班而變更。The phone number cannot vary based on personnel shifts.