

NOTICE TO MARINERS

Issue Date: 14th July, 2017

Western Link Project

Deep water cable Installation Campaign 5b

This notice provides an update on the planned works for **Campaign 5b** using the vessels Giulio Verne & Normand Pacific. These works will be carried out in the Irish Sea as described below starting from mid of July 2017.

The **Campaign 5b** Pole 2 Western Link HVDC cable will be surface laid on the seabed by using the Cable Laying vessel **Giulio Verne** (IMO 8302014; Call Sign IBPU) from KP233 to KP176 after having completed the jointing operation at KP233 from Campaign 1 to Campaign 5b, south of the Isle of Man.

The **Campaign 5b** cable will then be immediately protected by Post Lay Installation Burial (PLIB) works using two vessels the **Normand Pacific** (IMO 9491977; Call Sign LAXI7) and the **Astrea** (IMO 8520771; Call Sign SYBE). See **table 1** for details of Campaign 5b.

Vessels are requested to pass at a safe speed and distance and fishing vessels are advised to remain a safe distance (approximately 1.5 nautical miles) from the areas identified. Guard Vessels have been deployed at each location to aid in monitoring the exposed areas and will advise of safe distances locally.

The vessels will monitor VHF Channel 16 at all times.



Cable Laying vessel - Giulio Verne



PLIB Support vessel - Astrea & Normand Pacific

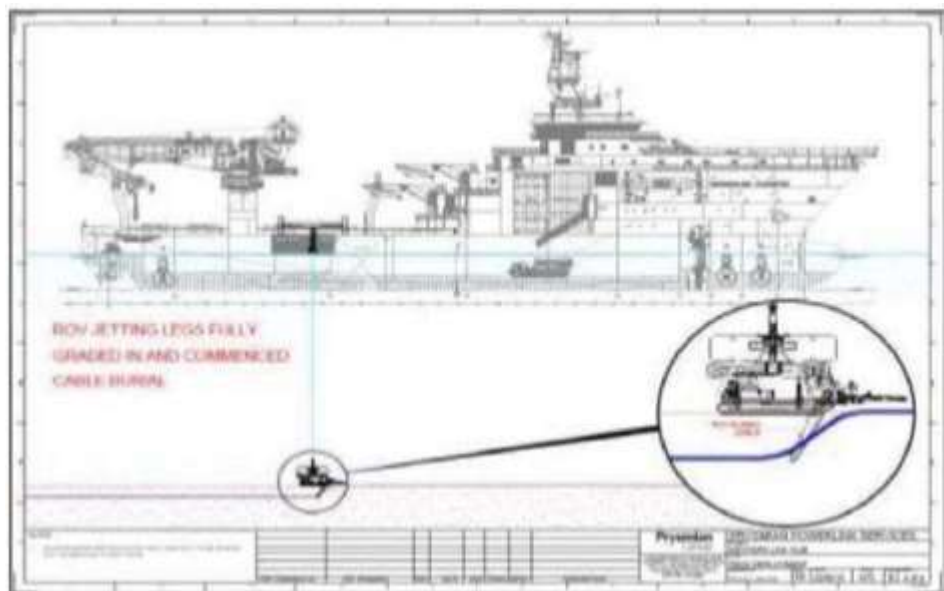


Figure 3 – PLIB general arrangement for each vessel

Table 1 – Campaign 5b installation section route

ID (Position Name / Event)	WGS84 - UTM 30 N		WGS84		Water Depth referred to LAT (m)	Geodetic				Turning Angle (deg)
	Easting	Northing	Latitude	Longitude		Partial Distance (km)	KP (km) from Ardneil	RKP (km) from Wirral	Bearing (deg)	
AC_292	354483	6028508	54° 23.011'N	005° 14.447'W	112	0,488	173,505	213,655	175,3	1,3
AC_293	354567	6025426	54° 21.352'N	005° 14.279'W	110	3,083	176,588	210,572	176,6	19,8
AC_294	354867	6024659	54° 20.944'N	005° 13.980'W	105	0,823	177,411	209,749	156,9	1,6
AC_295	355951	6022094	54° 19.580'N	005° 12.906'W	97	2,786	180,197	206,963	155,3	9,9
AC_296	356208	6021696	54° 19.370'N	005° 12.658'W	114	0,474	180,671	206,490	145,4	8,8
AC_297	358422	6016720	54° 16.726'N	005° 10.475'W	117	5,447	186,118	201,043	154,2	19,5
Manx- North Channel	358485	6015925	54° 16.299'N	005° 10.394'W	115	0,797	186,915	200,246	173,7	0,0
AC_298	358583	6014691	54° 15.635'N	005° 10.269'W	113	1,239	188,154	199,007	173,7	20,4
Northern_Ireland/International waters	358689	6014463	54° 15.514'N	005° 10.165'W	113	0,251	188,405	198,755	153,3	0,0
AC_299	361798	6007772	54° 11.960'N	005° 07.119'W	125	7,379	195,784	191,377	153,3	16,1
AC_300	361874	6007280	54° 11.696'N	005° 07.035'W	127	0,498	196,282	190,879	169,4	15,4
International/Isle of Man waters	361403	6003215	54° 09.498'N	005° 07.356'W	126	4,093	200,375	186,786	184,9	0,0
AC_301	361242	6001826	54° 08.747'N	005° 07.465'W	123	1,399	201,773	185,387	184,9	13,7
AC_302	361296	6001391	54° 08.513'N	005° 07.404'W	121	0,439	202,212	184,949	171,2	15,2

Interconnector_2_Pipeline_IS	361767	6000238	54° 07.899'N	005° 06.940'W	114	1,245	203,457	183,703	156,1	0,0
AC_303	361980	5999716	54° 07.621'N	005° 06.730'W	111	0,564	204,022	183,139	156,1	10,6
AC_304	362080	5999231	54° 07.361'N	005° 06.625'W	108	0,495	204,517	182,644	166,7	10,4
Ballyhorgan-Port Erin_No3_Coax_Cable_OOS	362097	5998454	54° 06.943'N	005° 06.588'W	104	0,777	205,294	181,867	177,1	0,0
AC_305	362121	5997310	54° 06.327'N	005° 06.535'W	98	1,145	206,439	180,722	177,1	19,5
AC_306	361291	5994795	54° 04.958'N	005° 07.226'W	93	2,648	209,088	178,073	196,6	8,3
AC_307	361183	5994181	54° 04.625'N	005° 07.308'W	93	0,624	209,711	177,449	188,2	11,0
AC_308	360869	5993362	54° 04.179'N	005° 07.574'W	92	0,877	210,589	176,572	199,3	2,1
AC_309	360108	5991137	54° 02.968'N	005° 08.210'W	72	2,351	212,940	174,220	197,2	11,4
AC_310	360001	5990326	54° 02.529'N	005° 08.286'W	74	0,819	213,759	173,402	185,8	20,0
AC_311	360073	5989997	54° 02.353'N	005° 08.210'W	73	0,337	214,096	173,065	165,8	19,1
AC_312	360225	5989750	54° 02.222'N	005° 08.064'W	71	0,289	214,385	172,776	146,7	20,0
Interconnector_1_Pipeline_IS	360962	5989166	54° 01.919'N	005° 07.373'W	70	0,941	215,326	171,834	126,7	0,0
AC_313	362082	5988278	54° 01.459'N	005° 06.324'W	69	1,429	216,755	170,405	126,7	20,0
AC_314	362266	5987978	54° 01.300'N	005° 06.147'W	68	0,352	217,107	170,053	146,7	15,2
AC_315	362346	5987707	54° 01.155'N	005° 06.067'W	68	0,283	217,390	169,771	161,9	20,0
AC_316	361807	5979165	53° 56.543'N	005° 06.328'W	64	8,560	225,950	161,211	181,9	20,0
AC_317	361897	5978858	53° 56.379'N	005° 06.237'W	64	0,321	226,271	160,890	162,0	12,0
AC_318	362049	5978575	53° 56.229'N	005° 06.090'W	64	0,321	226,592	160,569	150,0	19,9
AC_319	364565	5976326	53° 55.057'N	005° 03.733'W	69	3,375	229,967	157,194	130,1	18,5
AC_320	365034	5976125	53° 54.956'N	005° 03.299'W	70	0,511	230,477	156,683	111,6	18,5
AC_321	366140	5976034	53° 54.924'N	005° 02.287'W	57	1,110	231,587	155,574	93,0	3,1

AC_322	366767	5976017	53° 54.925'N	005° 01.714'W	60	0,627	232,214	154,946	90,0	6,3
AC_323	367185	5975958	53° 54.900'N	005° 01.332'W	62	0,422	232,636	154,525	96,3	8,9
AC_324	367466	5975963	53° 54.906'N	005° 01.075'W	62	0,282	232,917	154,243	87,4	3,2
AC_325	367817	5975988	53° 54.925'N	005° 00.755'W	66	0,352	233,269	153,892	84,3	5,6
AC_326	368688	5975965	53° 54.926'N	004° 59.959'W	68	0,872	234,141	153,020	89,9	19,8
AC_327	369780	5975539	53° 54.713'N	004° 58.952'W	66	1,172	235,313	151,847	109,7	15,1



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