Shetland HVDC Link
Shetland to Caithness
Notice to Mariners

NtM Number	**Shetland HVDC Link/009**
Date of Issue	**19/08/2021**

1 Planned Activity

NKT, on behalf of Scottish Hydro Electric Transmission Plc, will be surveying and investigating geophysical anomalies caused by objects on the seabed surface or buried, along the Shetland HVDC Link that were identified during the recent geophysical survey, with a view to determining whether these are potential unexploded ordnance (pUXO). An additional geophysical survey will also be completed between KP 244 and KP 250, using a Remotely Operated Vehicle (ROV) that will be towed along the route.

The Shetland HVDC link is a critical electricity transmission link and will form part of the electrical transmission grid that is essential to the transport of renewable energy between the locations where it is generated and areas of demand, and the delivery of both Scotland's and the United Kingdom's 2030 climate change targets.

The operation is to complete survey and investigation works only, UXO clearance shall not be undertaken. The investigation shall, within the area of operation, only identify the pUXO as: UXO, suspected UXO or as non-UXO.

It is of high importance that the geophysical anomalies are identified with the best possible accuracy.

The investigation survey will involve the use of Multibeam Echosounder (MBES), ROV and dredge pump, which involves the use of locally deployed equipment rather than any towed systems. Any debris that can positively be identified as non-UXO will be brought to deck if safe and reasonable to do so and disposed of appropriately onshore.

The investigation survey locations along the cable route are provided in section 7, a chart has also been provided below. An estimated 10 anomalies have been identified across the four locations along the cable route.

Please be aware that the vessel will be restricted in her ability to manoeuvre as defined under COLREGs (International Regulations for Preventing Collisions at Sea 1972). Masters of vessels are therefore requested to maintain their vessels at a minimum safe passing distance of **500 metres** when it is undertaking work and showing the appropriate shapes and lights in accordance with COLREGs Rules 16 and 18.

2 Outline Programme of Works

UXO Survey	Start date: 25/08/2021	Estimated Completion Date: 30/09/2021

These dates are subject to weather permitting, and therefore there may be the potential for an extension to the work duration.

3 Chart of Activity Area

Please find chart on the last page of the document.

4 Safe Clearances, Navigation Safety Features and Safety Notes for Mariners

All vessels are requested to maintain a safe distance (500m) from the investigation vessel.

All vessels are required to comply with the COLREGS, especially rules 16 and 18 as the vessel will be restricted in her ability to manoeuvre.

5 Vessel Details

Survey Vessel	
Vessel Name:	*Noordhoek Pathfinder*
Vessel Type / LOA(m):	Multipurpose Offshore Support Vessel / 61.87m
Vessel Function:	Survey vessel
VHF Call Sign:	PBYN
MMSI:	245457000
Vessel Bridge Mobile:	+31 10 80 80 080

Vessel Sat Phone:	+870 765 049 147
Onshore Contact:	Project manager: James Metcalf +44 7852 643317
Vehicle Photo	

6 Project Contact Details

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Name: Chris Finnigan
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Fisheries Liaison Officer (FLO):
Name: John Watt
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Telephone: +44 7590 880746

7 Geographic co-ordinates of activity area

Please note: The coordinates presented below is the simplified cable corridor centreline, the geophysical and investigation survey works will be completed -/+100m either side of the centreline. The chart provided also provides the centreline route.

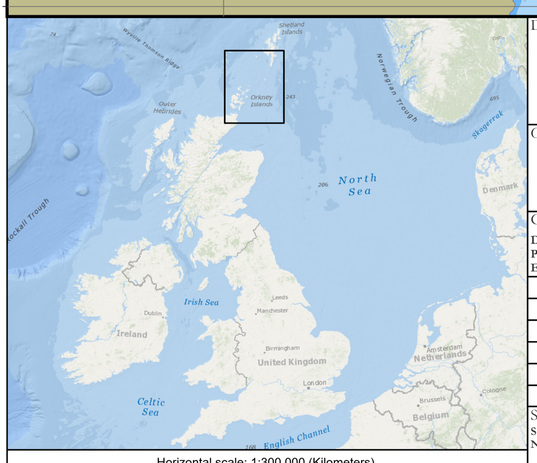
Investigation Survey Locations	WGS84 UTM Zone 30N		Degrees Decimal Minutes	
	Easting	Northing	Latitude	Longitude
KP 112 to KP 113	563114.26	6577628.43	59° 19.9639'N	001° 53.4417'W
	562864.57	6577225.36	59° 19.7490'N	001° 53.7120'W
KP 117 to KP 118	562552.70	6572095.20	59° 16.9881'N	001° 54.1299'W
	562580.60	6572057.90	59° 16.9678'N	001° 54.1012'W
KP 132 to KP 133	563831.00	6557904.50	59° 09.3319'N	001° 53.0342'W
	563843.30	6557902.50	59° 09.3307'N	001° 53.0213'W
KP 168 to KP 169	547810.00	6527269.30	58° 52.9525'N	002° 10.2385'W
	547770.00	6527241.10	58° 52.9376'N	002° 10.2804'W

Geophysical Survey Location	WGS84 UTM Zone 30N		Degrees Decimal Minutes	
	Easting	Northing	Latitude	Longitude
KP 244 to KP 250	504329.45	6480293.81	58° 27.7973'N	002° 55.5476'W
	499550.61	6480254.69	58° 27.7775'N	003° 00.4621'W

Legal Notice

Please be advised that this Notice to Mariners should be treated as official notice of the nature, duration and location of the works which are scheduled to take place. During the period of this notice, failure to remove equipment or entry into the identified location in a manner that would constitute a hazard to the operations described may be considered a breach of the Convention on International Regulations for Preventing Collisions at Sea 1972 and/or the Merchant Shipping Act 1995 (a breach of which can carry criminal sanctions).

Additionally, should any failure to remove any equipment within the notified location, or the presence of any vessel, prevent, obstruct, or delay the works, Scottish Hydro Electric Transmission Plc may consider taking legal action to remove the obstruction and/or seek damages for any delay, in addition to any legal costs in doing so.



Horizontal scale: 1:300,000 (Kilometers)

5 0 5 10 15 20 25

Drawing Title

SHETLAND HVDC Link
Anomalies Investigation Overview Chart

Client	Project	Contractor
Scottish & Southern Electricity Networks	SHETLAND HVDC Link	NKT

Geodetic parameters

Datum: WGS84
Projection: UTM 30N
Ellipsoid: WGS84
Semi-major Axis: 6378137.000m
Inverse Flattening: 298.25722
False Easting: 500000m
False Northing: 0m
Scale Factor (CM): 0.9996
Central Meridian (CM): 3°W
Vertical Datum: LAT

NKT Rev.	SSEN Rev.	Date	Status Code	Description	Drawn	Checked	Approved
A	01	05-08-2021	IFI	Issued for Information	DR	TC	NW

Service layer credits

Sources: Esri, GEBCO, NOAA, National Geographic, Garmin, HERE, Geonames.org, and other contributors, Esri, Garmin, GEBCO, NOAA NGDC, and other contributors, UK Hydrographic Office

Scale	Drawing Size	NKT Project No.	SSEN Project No.	NKT Document No.	SSEN Document No.	Sheet No.	Rev.
1:300,000	ISO A1	G19009	LT09	1AA0475359	-	01 of 01	A

Notes

Design route start point:
KP 0.000 (Weisdale Voe)
593572.92mE, 6678538.46mN
(60° 13' 58.1648"N,001° 18' 37.3885"W)
Reported KPs in plan view relative to design route '1AA0442240_Route Position List (RPL)_B', dated 10th May 2021.

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Investigation Survey Location 1:
Start KP 112 (59° 19.9639'N, 001° 53.4417'W)
End KP 113 (59° 19.7490'N, 001° 53.7120'W)
Investigation Survey Location 2:
Start KP 117 (59° 16.9881'N, 001° 54.1299'W)
End KP 118 (59° 16.9678'N, 001° 54.1012'W)
Investigation Survey Location 3:
Start KP 132 (59° 09.3319'N, 001° 53.0342'W)
End KP 133 (59° 09.3307'N, 001° 53.0213'W)
Investigation Survey Location 4:
Start KP 168 (58° 52.9525'N, 002° 10.2385'W)
End KP 169 (58° 52.9376'N, 002° 10.2804'W)
Geophysical Survey Location:
Start KP 244 (58° 27.7973'N, 002° 55.5476'W)
End KP 250)58° 27.7775'N, 003° 00.4621'W)

Legend

- Shetland HVDC Link with KP flags
- Investigation Survey Location
- Geophysical Survey Location

- 0m
- 0m - 10.0m
- 10.0m - 20.0m
- 20.0m - 30.0m
- 30.0m -

shallow sounding 9 5
deep sounding 30
contour label 25
underwater hazard 21

Buoys (example)
Beacons (example)
Lights

Submarine cable
Pipeline

Obstruction #
Wreck
Offshore platform