

Offshore Wind Farm

Outline Offshore Operations and Maintenance Plan (Tracked)

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Glossary of Acronyms/Abbreviations

CAA	Civil Aviation Authority
DCO	Development Consent Order
DML	Deemed Marine Licence
DoB	Depth of Burial
ES	Environmental Statement
Gen	Generation
HRA	Habitats Regulations Assessment
HVAC	High Voltage Alternating Current
HVDC	High Voltage Direct Current
IPMP	In-Principle Monitoring Plan
MBES	Multibeam-echo sounder
MMO	Marine Management Organisation
O&M	Operation and Maintenance
OCP	Offshore Converter Platform
Ofcom	Office of Communications
OOMP	Offshore Operations and Maintenance Plan
OSP	Offshore Substation Platform
OTNR	Offshore Transmission Network Review
PEMP	Project Environmental Management Plan
ROV	Remotely Operated Vehicle
SCADA	Supervisory Control and Data Acquisition
SNCB	Statutory Nature Conservation Body
SSS	Side Scan Sonar
Trans	Transmission
UK	United Kingdom
UPS	Uninterruptible Power Supply
UXO	Unexploded Ordnance
VHF	Very High Frequency
WTG	Wind Turbine Generator

Glossary of Terminology

### The cable circuits which take the electricity from the onshore substation on to the National Grid connection point. These comprise High Voltage Alternative Current (HVAC) cables, buried underground. ### Onshore cable control of control of the Current (HVAC) cables, buried underground. ### Onshore cable control of control of the Current (HVAC) cables, buried underground. ### Onshore cable control of cable, or on the Current (HVAC) cables, buried underground. ### Onshore cable control of cable, or on the Current (HVAC) cables, buried underground. ### Onshore cable control of cable, or on the Current (HVAC) cables, buried underground. ### Onshore cable carridors ### Onshore cable control of cable cables which link the wind turbine generators with each other, the offshore substation platform(s) and/or the offshore converter platform. ### Onshore cable carridor of cables which link the wind turbine generators with each other, the offshore substation platform (buried) and/or the offshore converter platform. ### Onshore cable corridor of the Project on construct new electrical infrastructure (a new substation) to allow the Project to construct new electrical infrastructure (a new substation) to allow the Project to connect to the grid, and this new infrastructure will be located at the National Grid connection point. #### Onshore converter platform with the project of the connection point. #### Onshore converter platform would be required. This is a fixed structure located within the array area to the landfall within which the diffshore converter platform would be required. This is a fixed structure located within the array area, containing HVAC and HVAC electrical equipment to aggregate the power from the wind turbine generators into HVDC power for export ables. #### Onshore cables which bring electricity from the offshore substation platform(s) to the landfall, as well as auxiliary cables. ### Onshore cable corridor(s)		
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wind turbine generator Power generating device that is driven by the kinetic energy of the wind.	Wind turbine generator	Power generating device that is driven by the kinetic energy of the wind.

1 Outline Offshore Operations and Maintenance Plan

1.1 Introduction

- 1. North Falls Offshore Wind Farm Limited (NFOW) ('the Applicant') has submitted a Development Consent Order (DCO) application for the North Falls Offshore Wind Farm (hereafter 'North Falls').
- 2. North Falls is a Nationally Significant Infrastructure Project, located in the southern North Sea, approximately 40km from the East Anglian coast, and is an extension to the west of the existing Greater Gabbard Offshore Wind Farm.
- 3. North Falls would make an important contribution towards the achievement of the United Kingdom's (UK) low carbon policies and net zero statutory targets through the generation of clean, low carbon, renewable electricity (see Chapter 2 Need for the Project, Volume I).

1.2 Purpose of this document

- 4. This outline Offshore Operations and Maintenance Plan (OOMP) has been drafted with specific reference to the interpretation of the definition of "maintain" within the Project's draft DCO (Document Reference: 6.1):
 - "maintain" includes inspect, upkeep, repair, adjust, and alter and further
 includes remove, reconstruct and replace any component of any offshore
 work including any cable, and the onshore works described in Part 1 of
 Schedule 1 (authorised development), to the extent assessed in the
 environmental statement and any derivative of maintain must be construed
 accordingly;
- 5. The purpose of this document is to provide an outline of reasonably foreseeable offshore maintenance activities, the broad approach to be taken for each activity and to clarify whether additional licencing is likely to be required in order to undertake the activity (provided in Appendix A of this document).
 - The final OOMP would be prepared following post-consent detailed design as required under Conditions of the Deemed Marine Licences (DMLs) included within the draft DCO (Document Reference: 6.1):" "An offshore operation and maintenance plan substantially in accordance with the outline offshore operations and maintenance plan shall be submitted to the MMO for approval in consultation with the relevant SNCB at least six months prior to the commencement of the operation of the licensed activities. All operation and maintenance activities shall be carried out in accordance with the approved plan."
- 6. The OOMP will include details of the:
 - Operation and Maintenance (O&M) requirements of the Project, including all activities, equipment, structures and associated infrastructure, in accordance with design and manufacturer recommendations;
 - Operational health, safety and environment management;
 - Accessibility and constraints;

- Logistical set up of the O&M base;
- O&M staff requirement, including numbers and skills;
- Spare parts and availability; and
- Planning of scheduled and unscheduled maintenance.
- 7. The Applicant has assessed the following reasonably foreseeable offshore operation and maintenance activities within the Environmental Statement (ES):
 - Operation:
 - The operation and control of the wind farm would be managed remotely by a Supervisory Control and Data Acquisition (SCADA) system, connecting each wind turbine generator (WTG) to an onshore control room.
 - Inspections:
 - Visits would be undertaken from vessels (e.g. service operations vessel, crew transfer vessel etc.) or helicopters.
 - Scheduled Maintenance:
 - Each WTG will require regular servicing;
 - Scheduled maintenance would be undertaken from vessels (e.g. service operations vessel, crew transfer vessel etc.) or helicopters.
 - Unscheduled Maintenance:
 - During the operational period it is anticipated that unscheduled maintenance activity may be required to deal with fault finding and repairs of the WTGs, cables (i.e., array cables, offshore export cables and platform interconnector cables) and associated offshore infrastructure.
- 8. The operational impacts are assessed in each relevant offshore technical chapter of the ES (discussed further in Appendix A).
- 9. Following the submission of the DCO application, comments have been provided by stakeholders regarding the content of the outline OOMP. Table 1.1 provides a summary of the amendments that have been made in response to the feedback received.

Table 1.1 Summary of Outline OOMP Changes

Outline OOMP Revision Number	Summary of Changes	Relevant Section of the Outline OOMP
<u>01</u>	Amendment to the text on additional cable protection to reflect the dMLs. Any cable protection must be deployed within 10 years of the date of the Order.	SectionAppendix A
	Updates to the values of scour protection around foundations for the lifetime of the Project following the removal of gravity base foundations.	SectionAppendix A

1.3 Project Overview

- 8-10. The following three grid connection options are included in the Project design envelope.
 - Option 1: Onshore electrical connection at a National Grid connection point within the Tendring peninsula of Essex, with a project alone onshore cable route and onshore substation infrastructure.
 - Option 2: Onshore electrical connection at a National Grid connection point within the Tendring peninsula of Essex, sharing an onshore cable route and onshore duct installation (but with separate onshore export cables) and co-locating separate project onshore substation infrastructure with Five Estuaries: or
 - Option 3: Offshore electrical connection, supplied by a third party.
- 9.11. Options 1 and 2 would be the same for the offshore project infrastructure and associated works. For option 3 there would be no project export cables. Within the array area, under options 1 and 2 there would be up to two offshore substation platforms (OSPs); whereas for option 3 there would be one offshore converter platform (OCP) and up to one OSP, i.e. under all scenarios there would be a maximum of two platforms (described further in ES Chapter 5 Project Description (Document Reference: 3.1.7)).
- 10.12. The North Falls project area comprises:
 - The offshore project area:
 - The offshore wind farm area (hereafter the 'array area') within which the WTGs, offshore substation platform(s), offshore converter platform (if required), platform interconnector cable and array cables will be located; and
 - Offshore cable corridor (for options 1 and 2 only) the corridor of seabed from array area to the landfall within which the offshore export cables will be located.
 - The onshore project area (not applicable to this document).

1.4 Discharging the Consent Condition

1.4.1 Activity List during the Operation and Maintenance phase

- 41.13. The list of activities to be undertaken during the O&M phase is provided as Appendix A. This O&M list is a live document which will be updated and agreed with the Marine Management Organisation (MMO) as required.
- 12.14. For each activity, a 'traffic light system' is used to provide clarity as to those activities that can be carried out under the existing DCO/DMLs.
 - Green indicates that an additional Marine Licence is not required, however a subsequent approval from the MMO may be required and/or notification should be provided to the MMO on works being undertaken;

- Amber indicates that an additional Marine Licence may be required if proposed works exceed those assessed within the ES or described within the DCO; or
- Red indicates that an additional Marine Licence would likely be required. This would be dependent on the works to be undertaken (e.g. scale and methodology), subject to agreement with the MMO.

Appendix A. Operations and Maintenance List

Potential offshore maintenance activity	Relevant DML	Included in the ES?	Realistic worst case assessed in the ES	Location in the application document (where applicable)	Additional Licence likely to be required	Consultation required with the MMO and relevant SNCB
WTGs and platform	ms (topsides and fo	undations)				
Annual WTGs maintenance	Gen ¹	Yes	Within scheduled and unscheduled maintenance activities assumed for the NFOW project, a worst	ES Chapter 5 Project	No	No
WTG troubleshooting	Gen	Yes	case considers that up to 1,222 maintenance vessel trips per annum would be required. There are a number of potential maintenance	Description (Document Reference: 3.1.7);	No	No
WTG repair	Gen	Yes	strategies for the proposed NFOW project which	ES Chapter 8	No	No
Blade inspection	Gen	Yes	will be determined by the final design of array area infrastructure and procurement of the	Marine Geology, Oceanography	No	No
Blade and hub repair	Gen	Yes	maintenance contractors. The array areas infrastructure could be maintained from shore using a number of varying O&M vessels (e.g. crew transfer vessels, supply	and Physical Processes (Document Reference: 3.1.10);	No	No
Blade replacement	Gen	Yes			No	No
Transition piece repair	Gen	Yes	Alternatively, the wind farm could be maintained from an accommodation vessel(s), with crew	ES Chapter 9 Marine water and	No	No
Transition piece maintenance	Gen	Yes	transfer vessels used to transfer personnel to or from WTGs and the accommodation vessel(s). Typical maintenance activities would include	sediment quality (Document Reference:	No	No
Transformer replacement	Gen	Yes	general servicing; oil sampling / change; UPS (uninterruptible power supply)-battery change;	3.1.11);	No	No

¹ Generation DML

Potential offshore maintenance activity	Relevant DML	Included in the ES?	Realistic worst case assessed in the ES	Location in the application document (where applicable)	Additional Licence likely to be required	Consultation required with the MMO and relevant SNCB
Gearbox repair and replacement	Gen	Yes	service and inspections of WTGs safety equipment, nacelle crane, service lift, high voltage	ES Chapter 10 Benthic and Intertidal Ecology	No	No
Generator replacement	Gen	Yes	that large components (e.g. WTGs blades or	(Document Reference:	No	No
Paint and repair	Gen & Trans ²	Yes	replacement during the operational phase, the failure of these components is possible. Should	3.1.12); ES Chapter 11	No	No
J-Tube and ladder cleaning	Gen & Trans	Yes	this be required, large jack-up vessels may need to operate continuously for significant periods to carry out these major maintenance activities. A separate item regarding groundwork activities to facilitate jack-up vessel leg placement is provided below under 'Other' activities. An estimated Though not expected every year, the peak worst-case number of component replacement activities in a year is 177, major component replacement activities may be required per year, These would be using jack up vessels and/or anchoring, with an estimated footprint of 292,050m²-per year.	Fish and Shellfish Ecology (Document Reference: 3.1.13); ES Chapter 12 Marine Mammal (Document Reference: 3.1.14); ES Chapter 13 Offshore Ornithology (Document Reference: 3.1.15); ES Chapter 14 Commercial Fisheries (Document	No	No

² Transmission DMLs

Potential offshore maintenance activity	Relevant DML	Included in the ES?	Realistic worst case assessed in the ES	Location in the application document (where applicable)	Additional Licence likely to be required	Consultation required with the MMO and relevant SNCB
				Reference: 3.1.16); ES Chapter 15 Shipping and Navigation (Document Reference: 3.1.17); ES Chapter 16 Offshore Archaeology and Cultural Heritage (Document Reference: 3.1.18); and ES Chapter 18 Infrastructure and Other Users (Document Reference: 3.1.20).		
Removal of organic material	Gen & Trans	Yes	Marine growth / guano will accumulate on the offshore infrastructure, this must be regularly removed to protect the exterior parts of the WTG. This would involve scraping and/or jet washing marine growth and bird guano from the WTG structures. The jet washing would be done with seawater and therefore only natural materials would enter the marine environment.	ES Chapter 5 Project Description (Document Reference: 3.1.7)	No	No
Addition of antifouling devices	Gen & Trans	No	Anti-fouling devices such as passive bird scarers and bird spikes can be used on the offshore infrastructure to discourage birds and other	N/A	No	No

Potential offshore maintenance activity	Relevant DML	Included in the ES?	Realistic worst case assessed in the ES	Location in the application document (where applicable)	Additional Licence likely to be required	Consultation required with the MMO and relevant SNCB
			animals from establishing themselves on or soiling the external surfaces. Such devices are required to ensure safe access and functionality of the infrastructure. It is important to note that the devices are not designed to actively or passively harm wildlife.			
Platform general maintenance work, e.g. oil replacement, mechanical works, external surface preparation and protective coating repair / repainting.	Trans	Yes	Within the assumed maintenance activities per annum for scheduled and unscheduled maintenance as described above. Monitoring to inform maintenance is discussed in the Offshore In-Principle Monitoring Plan (IPMP) (Document Reference: 7.10), including monitoring the condition of surface infrastructure and geophysical surveys of subsea assets.	ES Chapter 5 Project Description (Document Reference: 3.1.7).	No	No
Platform major component replacement	Trans	Yes	_		No	No
Substation switchgear replacement	Trans	Yes			No	No
Inspections including geophysical surveys (MBES, magnetometer, SSS) to inspect subsea assets	Gen & Trans	Yes			No	No

Potential offshore maintenance activity	Relevant DML	Included in the ES?	Realistic worst case assessed in the ES	Location in the application document (where applicable)	Additional Licence likely to be required	Consultation required with the MMO and relevant SNCB
Sub-bottom profiling (i.e. chirp or pinger)	Gen & Trans	Yes			No	No
Foundation replacement	Gen & Trans	No	Replacement of a foundation is not expected, as a foundation failure is considered to be a highly unlikely event. Should such an occurrence take place then consent for the replacement of the failed foundation would be obtained from the MMO prior to commencement.	N/A	Yes	Yes
Replacement or addition to scour protection around foundations. ³	Gen & Trans	Yes	Scour protection is included in the reasonable worst case scenario for 100% foundations requiring scour protection. The maximum area and volume of scour protection included in the ES and DCO application for the life of the project is (based on gravity base foundations, excluding the foundation footprint): • WTG/OSPs/OCP scour protection area per foundation: 46,822.347,52983,774m²; • WTG scour protection total area: 2,668,870.94,775,118m²; • WTG scour protection total volume: 9,313,1134,882,186m³;	ES Chapter 5 Project Description (Document Reference: 3.1.7); ES Chapter 8 Marine Geology, Oceanography and Physical Processes (Document Reference: 3.1.10); ES Chapter 10 Benthic and Intertidal Ecology	Potentially	Yes

³ The total scour protection installed over the life of the Project cannot exceed the values included <u>in</u> the DCO. <u>Cable protection would only be deployed up to ten years following completion of construction.</u>

Potential offshore maintenance activity	Relevant DML	Included in the ES?	Realistic worst case assessed in the ES	Location in the application document (where applicable)	Additional Licence likely to be required	Consultation required with the MMO and relevant SNCB
			 OSPs/OCP scour protection area per foundation: 80,412m² OSPs/OCP scour protection total area: 160,824m²466,7154,751,375167,548m² (83,356m²-each); and OSPs/OCP scour protection total volume: 50,316326,776m³. 	(Document Reference: 3.1.12); ES Chapter 11 Fish and Shellfish Ecology (Document Reference: 3.1.13); ES Chapter 12 Marine Mammal (Document Reference: 3.1.14); ES Chapter 13 Offshore Ornithology (Document Reference: 3.1.15); ES Chapter 14 Commercial Fisheries (Document Reference: 3.1.16); and ES Chapter 16 Offshore Archaeology and Cultural Heritage (Document		

Potential offshore maintenance activity	Relevant DML	Included in the ES?	Realistic worst case assessed in the ES	Location in the application document (where applicable)	Additional Licence likely to be required	Consultation required with the MMO and relevant SNCB
				Reference: 3.1.18).		
Cables (array, pla	tform interconnecto	r and offshore expo	rt)			
Additional cable laying for repairs	Gen & Trans	Yes	During the life of the project, cable repairs may be required, and periodic inspections, including through the use of geophysical surveys, will be undertaken. Periodic surveys would also be required to ensure the cables remain buried and if they do become exposed, re-burial works would be undertaken. An estimated four repairs of the export cables (applicable to options 1 and 2 only) and five repairs of the array cables over the Project life is included in the EIA. It is assumed 600m would be removed and replaced in the event of a repair operation. In most cases a failure would lead to the following operations: • Vessel anchor placement; • Exposing / unburying the cable; • Cutting the cable;	ES Chapter 5 Project Description (Document Reference: 3.1.7); ES Chapter 8 Marine Geology, Oceanography and Physical Processes (Document Reference: 3.1.10); ES Chapter 9 Marine water and sediment quality (Document Reference: 3.1.11);	Potentially	Yes
Cable re-burial	Gen & Trans	Yes	 Lifting the cable ends to the repair vessel; Jointing a new segment of cable to the old cable; Lowering the cable (and joints) back to the seabed; and Cable burial, where possible. 	ES Chapter 10 Benthic and Intertidal Ecology (Document Reference: 3.1.12); ES Chapter 11 Fish and Shellfish	Potentially	Yes

Potential offshore maintenance activity	Relevant DML	Included in the ES?	Realistic worst case assessed in the ES	Location in the application document (where applicable)	Additional Licence likely to be required	Consultation required with the MMO and relevant SNCB
Cable inspection including geophysical surveys (Multibeam-echo sounder (MBES), magnetometer, side scan sonar (SSS)) and Depth of Burial (DoB) surveys to inspect subsea assets.	Gen & Trans	Yes	Cables can become exposed due to moving sand waves but also sometimes due to erosion of other soft / mobile sediment (not just sand waves). During the life of the project, periodic geophysical surveys would be required to ensure the cables remain buried and if they do become exposed, reburial works would be undertaken. The following estimated reburial over the life of the Project is included, although the aim would be to avoid requirement for reburial by using sand wave levelling / pre-sweeping during cable	Ecology (Document Reference: 3.1.13); ES Chapter 12 Marine Mammal (Document Reference: 3.1.14); ES Chapter 13 Offshore Ornithology	No	Yes
Sub-bottom profiling (i.e. chirp or pinger)	Gen & Trans	No	 Reburial of c.2.75% of array cable length Reburial of c.2.75% of platform 	(Document Reference: 3.1.15);	No	Yes
Geotechnical survey	Gen & Trans	No	interconnector cable Reburial of c.4% of export cable	ES Chapter 14 Commercial Fisheries (Document Reference: 3.1.16); ES Chapter 15 Shipping and Navigation (Document Reference: 3.1.17); ES Chapter 16 Offshore Archaeology and Cultural Heritage (Document	Potentially	Yes

Potential offshore maintenance activity	Relevant DML	Included in the ES?	Realistic worst case assessed in the ES	Location in the application document (where applicable)	Additional Licence likely to be required	Consultation required with the MMO and relevant SNCB
				Reference: 3.1.18); ES Chapter 18 Infrastructure and Other Users (Document Reference: 3.1.20).		
Additional cable protection ⁴	Gen & Trans	Yes	Cable protection is included in the reasonable worst case scenario for 20% of the array and platform interconnector cable length and 10% of the offshore export cable length. Cable protection would only be deployed up to ten years following completion of construction. The maximum area and volume of cable protection included in the ES and DCO application is:for the life of the Project is: Array cable protection area: 204,000m²; Array cable protection volume 119,000m³; Platform interconnector cable protection area: 24,000m²;	ES Chapter 5 Project Description (Document Reference: 3.1.7); ES Chapter 8 Marine Geology, Oceanography and Physical Processes (Document Reference: 3.1.10); ES Chapter 10 Benthic and Intertidal Ecology (Document	Potentially	Yes

⁴ The total cable protection installed during construction and operation cannot exceed the values included in the DCO. <u>Cable protection would only be deployed up terequired after ten years following completion of construction would be subject to an additional marine licence.</u>

Potential offshore maintenance activity	Relevant DML	Included in the ES?	Realistic worst case assessed in the ES	Location in the application document (where applicable)	Additional Licence likely to be required	Consultation required with the MMO and relevant SNCB
			 Offshore export cables protection area 75,240m²; and Offshore export cables protection volume 43,890m³. 	Reference: 3.1.12); ES Chapter 11 Fish and Shellfish Ecology (Document Reference: 3.1.13); ES Chapter 12 Marine Mammal (Document Reference: 3.1.14); ES Chapter 13 Offshore Ornithology (Document Reference: 3.1.15); ES Chapter 14 Commercial Fisheries (Document Reference: 3.1.16); ES Chapter 15 Shipping and Navigation (Document Reference: 3.1.17); and		

Potential offshore maintenance activity	Relevant DML	Included in the ES?	Realistic worst case assessed in the ES	Location in the application document (where applicable)	Additional Licence likely to be required	Consultation required with the MMO and relevant SNCB
				ES Chapter 16 Offshore Archaeology and Cultural Heritage (Document Reference: 3.1.18).		
Other						
Crane inspection	Gen & Trans	Yes	Within the assumed maintenance activities per annum as described above.	ES Chapter 5	No	No
Fuel replenishment to crew transfer vessel	Gen & Trans	Yes		Project Description (Document Reference: 3.1.7).	No	No
Re-fuelling of generator on the offshore electrical platforms	Gen & Trans	Yes			No	No
Grout and corrosion works (including cathodic protection inspection, grouting core samples and regrouting)	Gen & Trans	Yes			No	No
Retro-fitting of cathodic protection	Gen & Trans	No			No	No

Potential offshore maintenance activity	Relevant DML	Included in the ES?	Realistic worst case assessed in the ES	Location in the application document (where applicable)	Additional Licence likely to be required	Consultation required with the MMO and relevant SNCB
Crane transfers from vessel to either WTG or to quayside O&M Building or vice- versa	Gen & Trans	Yes			No	No
UXO clearance via detonation	Gen & Trans	Yes	The estimated UXO clearance operations over the lifetime of the project is assessed: • Pre-construction • 25 in the offshore cable corridor • 15 in the array area • During operation • 1 per year anywhere in the offshore project area	ES Chapter 5 Project Description (Document Reference: 3.1.7); ES Chapter 8 Marine Geology, Oceanography and Physical Processes (Document Reference: 3.1.10); ES Chapter 9 Marine water and sediment quality (Document Reference: 3.1.11); ES Chapter 10 Benthic and Intertidal Ecology (Document Reference: 3.1.12);	Yes	Yes

Potential offshore maintenance activity	Relevant DML	Included in the ES?	Realistic worst case assessed in the ES	Location in the application document (where applicable)	Additional Licence likely to be required	Consultation required with the MMO and relevant SNCB
				ES Chapter 11 Fish and Shellfish Ecology (Document Reference: 3.1.13); and ES Chapter 12 Marine Mammals (Document Reference: 3.1.14).		
Transport and transfer of individuals and load by air	Gen & Trans	Yes	100 helicopter round trips for routine and planned operation and maintenance during the O&M period.	ES Chapter 5 Project Description (Document Reference: 3.1.7); ES Chapter 13 Offshore Ornithology (Document Reference: 3.1.15); and ES Chapter 17 Aviation and Radar (Document Reference: 3.1.19).	No	No
Recovery of dropped objects	Gen & Trans	No	In accordance with the draft DCO (Document Reference: 6.1), dropped objects will be reported to the MMO using the Dropped Object Procedure Form. On receipt of the Dropped Object Procedure Form, the MMO may require relevant	N/A	No Dropped objects will be reported to the MMO using the Dropped	No

Potential offshore maintenance activity	Relevant DML	Included in the ES?	Realistic worst case assessed in the ES	Location in the application document (where applicable)	Additional Licence likely to be required	Consultation required with the MMO and relevant SNCB
			surveys to be carried out if reasonable to do so and the MMO may require obstructions to be removed from the seabed if reasonable to do so.		Object Procedure Form.	
Rope access	Gen & Trans	No	Rope access work could be required to provide access for both routine and extra ordinary operations.	N/A	No	No
Use of drones for offshore inspection	Gen & Trans	No	The use of drones for inspections of blades, transition pieces and the splash zone.	N/A	Drone operation will under the jurisdiction Aviation Authority (C	n of the Civil





HARNESSING THE POWER OF NORTH SEA WIND

North Falls Offshore Wind Farm Limited

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