



Marine Management Organisation Marine Licence

1 Introduction

This is a licence granted by the Marine Management Organisation on behalf of the Secretary of State to authorise the licence holder to carry on activities for which a licence is required under Part 4 of the Marine and Coastal Access Act 2009.

1.1 Licence number

The licence number for this licence is L/2014/00375/2

1.2 Licence holder

The licence holder is the person or organisation set out below:

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| Name / company name | NATIONAL GRID NSN LINK LIMITED |
| Company registration number (if applicable) | 08082344 |
| Address | National Grid House Warwick Technology Park Gallows Hill Warwick CV34 6DA |
| Contact within company | Mr Mark Pearce |
| Position within company (if applicable). State if company officer or director | Project Director |

1.3 Licence date

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| Version | 2 |
| Licence start date | 01 December 2014 |
| Licence end date | 01 December 2114 |
| Date of original issue | 01 December 2014 |
| Date of variation issue | 25 September 2015 |

1.4 Licence validity

This version of this licence is valid from the licence start date to the licence end date.

This version of this licence supersedes any earlier version of this licence. Any activity commenced under a previous version of this licence and which is also a licensed activity authorised by section 4 of this version of this licence may continue in accordance with the licence conditions in section 5 of this version of this licence.

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2 General

2.1 Interpretation

In this licence, terms are as defined in section 115 of the Marine and Coastal Access Act and the Interpretation Act 1978 unless otherwise stated.

- "licensed activity" means any activity set out in section 4 of this licence.
- "licence holder" means the person(s) or organisation(s) named in section 1 above to whom this licence is granted.
- "MMO" means the Marine Management Organisation.
- "mean high water springs" means the average of high water heights occurring at the time of spring tides.
- "sea bed" or "seabed" means the ground under the sea.
- "the 2009 Act" means the Marine and Coastal Access Act 2009.
- All times shall be taken to be the time on any given day.
- All geographical co-ordinates contained within this licence are in WGS84 format (latitude and longitude degrees and minutes to four decimal places) unless stated otherwise.

2.2 Contacts

Except where otherwise indicated, the main point of contact with the MMO and the address for email and postal returns and correspondence shall be:

Marine Management Organisation

Lancaster House

Hampshire Court

Newcastle upon Tyne

NE4 7YH

Tel:0300 123 1032

Fax:0191 376 2681

Email:marine.consents@marinemanagement.org.uk

Any references to any local MMO officer shall be the relevant officer in the area(s) located at:

Marine Management Organisation

Neville House

Central Riverside

Bell Street

North Shields

NE30 1LJ

Tel: 0191 257 4520

Fax: 0191 257 1595

Email: northshields@marinemanagement.org.uk

3 Project overview

3.1 Project title

North Sea Network Link Interconnector

3.2 Project description

National Grid NSN Link Limited (NGNSNLL) and Statnett SF (SSF) are jointly developing an electrical high-voltage direct current (HVDC) interconnector between Norway and the United Kingdom. This is a major international electricity project that will facilitate the cross-border trading of electricity between the two countries and is referred to as the North Sea Network (NSN) project. The link would enable power to flow in either direction at different times, depending on the supply and demand in each country. The route runs from Hylene, in southwest Norway, to the Cambois Beach, Blyth in northeast England. The interconnector has a planned capacity of up to 1,400 MW.

3.3 Related marine licences

L/2012/00113/2 - Removals (including grab samples).

L/2013/00388 - Removals (grab samples).

4 Licensed activities

This section sets out the licensed activities. The licensed activities are authorised to be carried on only in accordance with the activity details below and with the licence conditions as set out in section 5 of this licence.

| Site 1 - Cable Route Corridor | |
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| Site location | <p>A 500 metre (m) cable installation corridor located between mean high water springs (MHWS) at Cambois beach, Blyth, Northumberland and the English territorial 12 nautical mile (nm) limit.</p> <p>Refer to Licence Schedule 1 for co-ordinates.</p> |
| Activity 1.1 - Installation and operation of HVDC submarine interconnector cables and fibre optic cable | |
| Activity type | Construction |
| Activity location | Refer to Licence Schedule 1 for cable route co-ordinates. |
| Description | <p>The installation of two HVDC mass impregnated (MI) submarine cables between Cambois Beach, Blyth, Northumberland to 12 nm limit in UK waters. This will transmit approximately 1.4 giga watts (GW) using a bipole system (+550 kv and -500 kv). The cables will be installed separately (between 20 m and 50 m apart).</p> |
| Methodology | <p>A pre-lay grapnel run will be followed by cable installation in two trenches (for each cable) within the consented cable corridor by means of:</p> <ul style="list-style-type: none"> - Jet trenchers; and - Mechanical trenchers. <p>The marine cables will be buried to a depth of between 1-2 m by a jetting machine for 80-90% of the cable route. In the intertidal zone the marine cable will be installed by a mechanical trenching machine with tacked excavators. Two trenches will be constructed using a conventional excavator and rollers will be used in the base of the trench to pull the cable along it. The trench will be approximately 1-2 m wide. Mechanical trenching may also be used in the stiff clay or coarse cobble rich gravel found along short sections of the route.</p> |
| Programme of works | <p>Construction of the North Sea Network Link Interconnector cable will commence between 2018 and 2019 with precise timings to be agreed with the MMO under condition 5.2.5.</p> |

| Site 2 - Cable Protection Coordinates | |
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| Site location | Refer to Licence Schedule 2 for cable protection co-ordinates. |
| Activity 2.1 - Rock Armour/ Concrete Mattressing | |
| Activity type | Construction of new works |
| Activity location | Refer to Licence Schedule 2 for cable protection co-ordinates. |
| Description | In areas where minimum depths cannot be achieved due to hard sediments or at crossings with existing cables or pipelines, rock placement and/or mattressing will be used to protect the cables. |
| Methodology | <p>The total rock protection required for burial depth and cable crossing protection within 12 nm is 3.01km with a footprint of 0.021 km².</p> <p>The total rock protection for burial depth within English waters outside the 12 nm is 13.56 km in length with a footprint of 0.095 km².</p> <p>The total length of rock protection within English waters is 16.567 km per cable, with a total footprint of 116 km² per cable.</p> <p>Refer to Licence Schedule 3 for a more detailed breakdown.</p> <p>In areas where cable burial is not possible (for example at cable and/or pipeline crossings and areas of bedrock) the cable will be protected by installation of rock (gravel) or mattressing armouring.</p> <p>The North Sea Network Link Interconnector cable will have one crossing location with an existing cable within English waters. In addition, there are locations on the route where rock placement may be required due to poor burial.</p> <p>Refer to Licence Schedule 3 for further information.</p> <p>The total shown is for maximum rock protection and these amounts must not be exceeded.</p> |
| Programme of works | Construction of the North Sea Network Link Interconnector cable will commence between 2018 and 2019 with precise timings to be agreed with the MMO under condition 5.2.5. |

5 Licence conditions

5.1 General conditions

5.1.1 Notification of commencement

The licence holder must notify the MMO prior to the commencement of the first instance of any licensed activity. This notice must be received by the MMO no less than five working days before the commencement of that licensed activity.

5.1.2 Licence conditions binding other parties

Where provisions under section 71(5) of the 2009 Act apply, all conditions attached to this licence apply to any person who for the time being owns, occupies or enjoys any use of the licensed activities for which this licence has been granted.

5.1.3 Agents / contractors / sub-contractors

The licence holder must notify the MMO in writing of any agents, contractors or sub-contractors that will carry on any licensed activity listed in section 4 of this licence on behalf of the licence holder. Such notification must be received by the MMO no less than 24 hours before the commencement of the licensed activity.

The licence holder must ensure that a copy of this licence and any subsequent revisions or amendments has been provided to, read and understood by any agents, contractors or sub-contractors that will carry on any licensed activity listed in section 4 of this licence on behalf of the licence holder.

5.1.4 Vessels

The licence holder must notify the MMO in writing of any vessel being used to carry on any licensed activity listed in section 4 of this licence on behalf of the licence holder. Such notification must be received by the MMO no less than 24 hours before the commencement of the licensed activity. Notification must include the master's name, vessel type, vessel IMO number and vessel owner or operating company.

The licence holder must ensure that a copy of this licence and any subsequent revisions or amendments has been read and understood by the masters of any vessel being used to carry on any licensed activity listed in section 4 of this licence, and that a copy of this licence is held on board any such vessel.

5.1.5 Changes to this licence

Should the licence holder become aware that any of the information on which the granting of this licence was based has changed or is likely to change, they must notify the MMO at the earliest opportunity. Failure to do so may render this licence invalid and may lead to enforcement action.

5.2 Project specific conditions

This section sets out project specific conditions relating to the licensed activities as set out in section 4 of this licence.

| ALL LICENSED ACTIVITIES | |
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| PRIOR TO THE COMMENCEMENT OF LICENSED ACTIVITIES | |
| 5.2.1 | <p>The licence holder must notify the Source Data Receipt Team at the UK Hydrographic Office (UKHO), Taunton, Somerset, TA1 2DN (email: hdcfiles@ukho.gov.uk; Tel 01823 337900) of the commencement of licensed activities at least 2 weeks prior to the commencement of licensed activities. Copies of this notification must be provided to the MMO licensing team and MMO Coastal Office.</p> <p>Reason: <i>To reduce navigational risk by ensuring nautical charts are updated and ensure the provision of information to mariners.</i></p> |
| 5.2.2 | <p>The licence holder must provide Humber Maritime Rescue Coordination Centre, HM Coastguard a timetable of works no less than 10 working days prior to the first instance that the licenced activity is due to start.</p> <p>Reason: <i>To ensure safe navigation at sea.</i></p> |
| 5.2.3 | <p>The licence holder must ensure that the works do not encroach on any recognised anchorage, either charted or noted in nautical publications, within the marine licence consented area.</p> <p>Reason: <i>To ensure navigations safety.</i></p> |
| 5.2.4 | <p>The licence holder must undertake a pre-installation route survey to confirm the location and extent of any Annex 1 reef habitat identified in the previous survey works undertaken to inform the Environmental Statement.</p> <p>The survey specification must be submitted to the MMO, for approval, no less than 4 months prior to the commencement of survey works. The survey must not be undertaken until the specification has been approved by the MMO. The results of the survey must be submitted to the MMO no less than 4 months prior to the commencement of licensed activities and include an assessment of the potential to micro-site the cable to avoid any Annex I habitats</p> |

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| | <p>identified.</p> <p>Licensed activities must not commence until the MMO has provided written approval of the pre-construction benthic monitoring reports.</p> <p>Reason: <i>To ensure that Annex I habitat will not be subject to an unassessed impact as a result of the licensed activities.</i></p> |
| <p>5.2.5</p> | <p>The licence holder must submit a detailed cable laying methodology plan at least 4 months prior to the commencement of licensed activities. The plan must include;</p> <ul style="list-style-type: none"> - Technical specification; - Location and timings; - Timings and duration of intertidal works; - Burial risk assessment to ascertain burial depth; - Installation techniques; - Cable laying technique; - Cable crossing armouring methodology; - Installation machinery failure contingency plan; and - Transport management plan. <p>Licensed activities must not commence until the MMO has provided written approval of the Cable Burial Management and Installation Plan.</p> <p>Reason: <i>To ensure the methodology follows best practice and is within the limits assessed in the application to reduce environmental and navigational impacts.</i></p> |
| <p>5.2.6</p> | <p>The licence holder must submit a Marine Pollution Contingency Plan (MPCP), for approval by the MMO at least 4 months prior to the commencement of licensed activities. The MPCP must:</p> <ul style="list-style-type: none"> - Outline procedures to be implemented in the event of spills and collision incidents (including oil and chemical spills); - Take into account existing plans for all operations, including offshore installations, which may influence the MPCP; |

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| | <p>and</p> <ul style="list-style-type: none"> - Detail practices used to refuel vessels at sea. <p>Reason: <i>To minimise the risk of pollution incident occurring by adopting best practice techniques.</i></p> |
| 5.2.7 | <p>The licence holder must prepare a Written Scheme of Investigation (WSI) in consultation with English Heritage to detail archaeological assessment and mitigation works necessary to inform the detailed delivery of the project. The WSI must be agreed with the MMO, in consultation with English Heritage, 4 months prior to the commencement of any survey work commissioned to aid delivery of the project. The WSI must include:</p> <ul style="list-style-type: none"> - An Archaeological Reporting protocol for the prompt reporting and recording of archaeological remains encountered, or suspected, during all phases of construction, operation and decommissioning. This must be set out in accordance with The Crown Estate Protocol for Archaeological Discoveries Offshore Renewable Projects (2010); - Responsibilities of the licence holder and archaeological consultant; - Details of contractors and curators (national and local); - Archaeological analysis and reporting of survey data and investigation; - Delivery of mitigation including use of archaeological construction exclusion zones in agreement with the MMO; and - Conservation, publication and archiving duties for archaeological material. <p>Licensed activities must not commence until the MMO has provided written approval of the WSI.</p> <p>Reason: <i>To ensure the integrity of archaeologically important items is not compromised.</i></p> |
| DURING LICENSED ACTIVITIES | |
| 5.2.8 | <p>The licence holder must install bunding/storage facilities to contain and prevent the release of fuels, oils and chemicals associated with plant, refuelling and construction equipment into the marine environment. Secondary containment must be used for a capacity of not less than 110% of the containers storage capacity.</p> <p>Reason:</p> |

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| | <i>To prevent marine pollution incidents by adopting best practice.</i> |
| FOLLOWING THE COMPLETION OF LICENSED ACTIVITIES | |
| 5.2.9 | <p>The licence holder must ensure that any equipment and waste and/or debris associated with licensed activities must be removed within 5 working days upon completion of licensed activities.</p> <p>Reason: <i>To prevent the accumulation of unlicensed debris and potential environmental damage, safety and navigational issues associated with such materials and debris.</i></p> |
| 5.2.10 | <p>The licence holder must notify the Source Data Receipt Team at the UK Hydrographic Office (UKHO), Taunton, Somerset, TA1 2DN (email: hdcfiles@ukho.gov.uk; Tel 01823 337900) within 2 weeks of the completion of construction. Copies of this notification must be provided to the MMO licensing team and MMO Coastal Office.</p> <p>Reason: <i>To reduce navigational risk by ensuring nautical charts are updated and ensure the provision of information to mariners.</i></p> |
| 5.2.11 | <p>The licence holder must conduct a post-installation side scan sonar survey of the cable routes and submit the results to the MMO for review within 6 weeks of the completion of the marine cable laying programme.</p> <p>Reason: <i>To ensure that no materials are posing an obstruction/hazard to other sea/sea-bed users.</i></p> |
| SITE 1- CABLE ROUTE CORRIDOR | |
| DURING LICENSED ACTIVITIES | |
| 5.2.12 | <p>The licence holder must ensure that precautions are taken to minimise disturbance to intertidal areas. Access routes must be well marked and the routes utilised to minimise damage to the foreshore.</p> <p>Reason: <i>To ensure the integrity of the site is maintained</i></p> |
| 5.2.13 | <p>The licence holder must ensure that, unless otherwise agreed in writing by the MMO, no licensed activities take place between 1 October to 31 March of any given calendar year within the Northumberland Shore Site of Special Scientific</p> |

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| | <p>Interest (SSSI).</p> <p>Reason: <i>To avoid disturbance to overwintering birds at Creswell and Newbiggin Shores Site of Special Scientific Interest and Northumbrian Coast Special Protection Areas.</i></p> |
| 5.2.14 | <p>The licence holder must ensure that construction works in the intertidal area are restricted to the designated working area approved under condition 5.2.5 within which all construction activity and plant vehicle movement will take place.</p> <p>Reason: <i>To minimise damage to habitat at Creswell and Newbiggin Shores SSSI and Northumbrian Coast Special Protections Areas (SPAs).</i></p> |
| 5.2.15 | <p>The licence holder must ensure the restoration of intertidal habitat by backfilling after construction.</p> <p>Reason: <i>To ensure habitat damage or loss is minimised to Creswell and Newbiggin Shores SSSI and Northumbrian Coast SPAs.</i></p> |
| 5.2.16 | <p>The licence holder must notify the Source Data Receipt Team at the UK Hydrographic Office (UKHO), Taunton, Somerset, TA1 2DN (email: hdcfiles@ukho.gov.uk; Tel 01823 337900) within 2 weeks of the completion of construction. Copies of this notification must be provided to the MMO licensing team and MMO Coastal Office.</p> <p>Reason: <i>To reduce navigational risk by ensuring nautical charts are updated and ensure the provision of information to mariners.</i></p> |
| SITE 2 - ROCK ARMOUR/CONCRETE MATTRESSING DEPOSIT | |
| DURING LICENSED ACTIVITIES | |
| 5.2.17 | <p>The licence holder must ensure that cable protection activities do not compromise existing and future safe navigation. A maximum of five percent reduction in surrounding depth referenced to Chart Datum is permitted but depth reduction must not compromise safe navigation.</p> <p>Reason: <i>To ensure navigational safety.</i></p> |

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| 5.2.18 | <p>The licence holder must ensure that any rock material used for cable crossing armouring is from a recognised source, free from contaminants and contains minimal fines.</p> <p>Reason: <i>To prevent pollution by material that may come from a polluted area or potentially change the chemical balance of the environment in which it is placed.</i></p> |
| 5.2.19 | <p>The licence holder must ensure that any rock misplaced or lost below Mean High Water Springs (MHWS) is reported to the local MMO Coastal Office (North Shields) within 48 hours, and located and recovered as directed by the MMO.</p> <p>Reason: <i>To manage the associated safety/navigation issues associated with rock transshipment and the potential loss of material that could cause an obstruction/hazard to other sea/sea-bed users.</i></p> |

6 Compliance and enforcement

This licence and its terms and conditions are issued under the Marine and Coastal Access Act 2009.

Any breach of the licence terms and conditions may lead to enforcement action being taken. This can include variation, revocation or suspension of the licence, the issuing of an enforcement notice, or criminal proceedings, which may carry a maximum penalty of an unlimited fine and / or a term of imprisonment of up to two years.

Your attention is drawn to Part 4 of the Marine and Coastal Access Act 2009, in particular sections 65, 85 and 89 which set out offences, and also to sections 86, 87 and 109 which concern defences. The MMO's Compliance and Enforcement Strategy can be found on our website (<https://www.gov.uk/government/publications/compliance-and-enforcement-strategy>).