



Sheringham Shoal and Dudgeon Offshore Wind Farm Extension Projects

Appendix 4 - Deemed Marine Licences 1-4 (Clean)

Revision A

Deemed Marine Licence Variation Application

October 2024

Document Reference: C282-BS-Z-GA-00053

SCHEDULE 10

Article 30

Marine Licence 1: Sheringham Shoal Extension Project Offshore Generation – Work Nos. 1A, 2A and 6A or 6C

PART 1

Licensed marine activities

Interpretation

1.—(1) In this marine licence—

“the 2004 Act” means the Energy Act 2004^(a);

“the 2008 Act” means the Planning Act 2008^(b);

“the 2009 Act” means the Marine and Coastal Access Act 2009^(c);

“the 2017 Regulations” means the Conservation of Offshore Marine Habitats and Species Regulations 2017^(d);

“air gap” means the distance between the lowest point of the rotating blade of a wind turbine generator and HAT;

“Annex 1 reef” means a reef of a type listed in Annex 1 to Council Directive 92/43/EEC on the conservation of natural habitats and of wild fauna and flora^(e);

“authorised deposits” means the substances and articles specified in paragraph 4 of Part 1 of this marine licence;

“authorised project” means Work Nos. 1A, 2A and 6A or 6C and the further associated development described in paragraph 3 of Part 1 of this marine licence or any part of that work or development;

“buoy” means any floating device used for navigational purposes or measurement purposes including LiDAR buoys, wave buoys and guard buoys;

“cable” includes cables for the transmission of electricity and fibre-optic cables;

“cable crossing” means the crossing of existing subsea cables and pipelines by the array, inter-array or export cables authorised by the Order and forming part of the authorised project together with physical protection measures including cable protection;

“cable protection” means measures to protect cables forming part of the authorised project from physical damage and exposure due to loss of seabed sediment including, but not limited to, rock placement, mattresses with or without frond devices, protective aprons or coverings, bagged solutions filled with sand, rock, grout or other materials and protective shells;

“commence” means the first carrying out of any licensed marine activities authorised by this marine licence, save for pre-construction monitoring surveys approved under this marine licence, and “commenced” and “commencement” must be construed accordingly;

“commercial operation” means in relation to any part of the authorised project, the exporting, transmission or conversion, on a commercial basis, of electricity;

(a) 2004 c.20. Section 105 was amended by section 69 of the Energy Act 2003 (c.32).

(b) 2008 c.29.

(c) 2009 c.23.

(d) S.I. 2017/1013.

(e) OJ L 206, 22.9.1992, p.7-50.

“Cromer Shoal Chalk Beds MCZ” means the Marine Conservation Zone designated by the Secretary of State under the Cromer Shoal Chalk Beds Marine Conservation Zone Designation Order 2016^(a);

“Defence Infrastructure Organisation Safeguarding” means Ministry of Defence Safeguarding, Defence Infrastructure Organisation, St George’s House, DIO Head Office, DMS Whittington, Lichfield, Staffordshire, WS14 9PY and any successor body to its functions;

“DEL” means Dudgeon Extension Limited, company number 12148301, whose registered office is at 1 Kingdom Street, London W2 6BD;

“DEP North” means the array extension area located to the north of DOW;

“DEP South” means the array extension area located to the south of DOW;

“DOW” means the Dudgeon Offshore Wind Farm;

“draft marine mammal mitigation protocol” means the document certified as the draft marine mammal mitigation protocol by the Secretary of State under article 37 (*certification of documents and plans, etc.*) of the Order;

“Dudgeon Extension Project” means the Dudgeon Extension Project offshore works and the Dudgeon Extension Project onshore works;

“Dudgeon Extension Project offshore works” means—

- (a) in the event of scenario 1, scenario 2 or scenario 3, Work Nos. 1B to 7B and any other authorised development associated with those works; or
- (b) in the event of scenario 4, Work Nos. 1B, 2B, the integrated offshore works and any other authorised development associated with those works;

“Dudgeon Extension Project onshore works” means—

- (a) in the event of scenario 1 or scenario 2, Work Nos. 8B to 22B and any other authorised development associated with those works; or
- (b) in the event of scenario 3, Work Nos. 8B to 14B, the scenario 3 integrated onshore works, Work Nos. 18B to 22B, and any other authorised development associated with those works;
- (c) in the event of scenario 4, Work Nos. 10B, 11B, 13B, 14B, the scenario 4 integrated onshore works, Work Nos. 18B to 22B, and any other authorised development associated with those works;

“environmental statement” means the document certified as the environmental statement by the Secretary of State under article 37 (*certification of documents and plans, etc.*) of the Order;

“gravity base structure foundation” means a structure principally of steel, concrete, or steel and concrete, which rests on the seabed either due to its own weight with or without added ballast, skirts or other additional fixings, and associated equipment including scour protection, J-tubes, corrosion protection systems, access platforms and equipment and separate topside connection structures or integrated transition pieces;

“HAT” means highest astronomical tide;

“HVAC” means high voltage alternating current;

“in-field cable” means a subsea cable linking two or more offshore structures;

“in principle Site Integrity Plan for the Southern North Sea Special Area of Conservation” means the document certified as the in principle Site Integrity Plan for the Southern North Sea Special Area of Conservation by the Secretary of State under article 37 (*certification of documents and plans, etc.*) of the Order;

“integrated offshore substation platform” means a single offshore substation platform to be constructed and operated for the benefit of both SEL and DEL;

“integrated offshore works” means Work Nos. 3C, 4C, 5C, 6C and 7C;

“interlink cable” means a subsea cable linking two offshore areas;

(a) M.O. 2016/4.

“intrusive activities” means activities including anchoring of vessels, jacking up of vessels, temporary deposits and temporary wet storage areas;

“jacket foundation” means a lattice type structure constructed of steel, which may include scour protection and additional equipment such as J-tubes, corrosion protection systems and access platforms;

“JNCC Guidance” means the statutory nature conservation body ‘Guidance for assessing the significance of noise disturbance against Conservation Objectives of harbour porpoise SACs’ Joint Nature Conservation Committee Report No.654, May 2020 published in June 2020 as amended, updated or superseded from time to time;

“joint bay” means an excavation located at regular intervals along the cable route consisting of a concrete flat base slab constructed beneath the ground to facilitate the jointing together of the cables;

“LAT” means lowest astronomical tide;

“land plans” means the plans certified as the land plans by the Secretary of State under article 37 of the Order;

“layout commitments” means the layout commitments contained within the navigation risk assessment at appendix 13.1 of the environmental statement;

“licensed activities” means the activities specified in Part 1 of this licence;

“maintain” includes inspect, upkeep, repair, adjust and alter the authorised project; in relation to any of the ancillary works, any cable, any component part of any wind turbine generator (including a component part of its foundation or transition piece), any component part of any offshore substation platform (including a component part of its foundation), further includes remove, reconstruct and replace (including the replenishment of cable and scour protection); and in all cases to the extent assessed in the environmental statement; and “maintenance” must be construed accordingly;

“Marine Management Organisation” means the body created under the 2009 Act which is responsible for the regulation of this marine licence or any successor of that function and “MMO” must be construed accordingly;

“MCA” means the Maritime and Coastguard Agency, the executive agency of the Department for Transport;

“MCMS” means the Marine Case Management System web portal provided and operated by the MMO;

“MHWS” or “mean high water springs” means the highest level that spring tides reach on average over a period of time;

“MLWS” or “mean low water springs” means the lowest level that spring tides reach on average over a period of time;

“monopile foundation” means a steel pile driven or drilled into the seabed and associated equipment including scour protection, J-tubes, corrosion protection systems and access platforms and equipment;

“offshore in principle monitoring plan” means the document certified as the offshore in principle monitoring plan by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order;

“offshore order limits and grid coordinates plan” means the plans certified as the offshore order limits and grid coordinates plan by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order;

“offshore substation platform” means a structure above LAT and attached to the seabed by means of a foundation, with one or more decks and open with modular equipment or fully clad, containing—

- (a) electrical equipment required to switch, transform or convert electricity generated at the wind turbine generators to a higher voltage and provide reactive power compensation, including high voltage power transformers, high voltage switchgear and busbars, substation

auxiliary systems and low voltage distribution, instrumentation, metering equipment and control systems, standby generators, shunt reactors, auxiliary and uninterruptible power supply systems;

- (b) accommodation, storage, workshop auxiliary equipment and facilities for operating, maintaining and controlling the substation or wind turbine generators, including navigation, aviation and safety marking and lighting, systems for vessel access and retrieval, cranes, potable water supply, black water separation, stores, fuels and spares, communications systems and control hub facilities;

“offshore works” means—

- (a) in the event of scenario 1, scenario 2 or scenario 3, Work Nos. 1A to 7A, 1B to 7B and any other authorised development associated with those works;
- (b) in the event of scenario 4, Work Nos. 1A, 1B, 2A, 2B, the integrated offshore works, and any other authorised development associated with those works;

“onshore works” means—

- (a) in the event of scenario 1 or scenario 2, Work Nos. 8A to 22A, 8B to 22B and any other authorised development associated with those works; or
- (b) in the event of scenario 3, Work Nos. 8A to 14A, 8B to 14B, the scenario 3 integrated onshore works, 18A to 22A, 18B to 22B and any other authorised development associated with those works; or
- (c) in the event of scenario 4, Work Nos. 10A, 10B, 11A, 11B, 13A, 13B, 14A, 14B, 18A to 22A and 18B to 22B, the scenario 4 integrated onshore works and any other authorised development associated with those works;

“Order” means The Sheringham Shoal and Dudgeon Extensions Offshore Wind Farm Order 2024;

“Order land” means the land shown on the land plans which is within the limits of land to be acquired or used and described in the book of reference;

“Order limits” means the limits shown on the offshore order limits and grid coordinates plans within which the authorised project may be carried out and the grid coordinates for Work Nos. 1A and 2A are set out in paragraph 5 of Part 1 of this marine licence;

“outline fisheries liaison and co-existence plan” means the document certified as the outline fisheries liaison and co-existence plan by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order;

“outline marine traffic monitoring plan” means the document certified as the outline marine traffic monitoring plan by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order;

“outline offshore operations and maintenance plan” means the document certified as the outline offshore operations and maintenance plan by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order;

“outline project environmental management plan” means the document certified as the outline project environmental management plan by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order;

“outline written scheme of investigation (offshore)” means the document certified as the outline written scheme of investigation (offshore) by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order;

“scour protection” means measures to prevent loss of seabed sediment around any structure placed in or on the seabed including by the use of bagged solutions, filled with grout or other materials, protective aprons, mattresses with or without frond devices, flow energy dissipation devices and rock and gravel placement;

“SEL” means Scira Extension Limited, company number 12239260, whose registered office is at 1 Kingdom Street, London W2 6BD;

“scenario 1” means each generating station will be constructed in any one of the following ways—

- (a) the construction of the Sheringham Shoal Extension Project only where the Dudgeon Extension Project does not proceed to construction;
- (b) the construction of the Dudgeon Extension Project only where the Sheringham Shoal Extension Project does not proceed to construction;
- (c) sequential construction where the Sheringham Shoal Extension Project is constructed first then the Dudgeon Extension Project is constructed second or vice versa; or
- (d) concurrent construction of the Sheringham Shoal Extension Project and the Dudgeon Extension Project;

“scenario 2” means a sequential construction scenario in which either the Sheringham Shoal Extension Project is constructed first and SEL installs the ducts for the Dudgeon Extension Project or the Dudgeon Extension Project is constructed first and DEL installs the ducts for the Sheringham Shoal Extension Project;

“scenario 3” means—

- (a) sequential or concurrent construction of Work Nos. 1A to 14A, 18A to 22A, 1B to 14B, 18B to 22B; and
- (b) construction of the scenario 3 integrated onshore works;

“scenario 3 integrated onshore works” means Work Nos. 15C to 17C;

“scenario 4” means—

- (a) sequential or concurrent construction of Work Nos. 1A, 1B, 2A, 2B, 10A, 10B, 11A, 11B, 13A, 13B, 14A, 14B, 18A to 22A, 18B to 22B; and
- (b) construction of the integrated offshore works and the scenario 4 integrated onshore works;

“scenario 4 integrated onshore works” means 8C, 9C, 12C, 15C, 16C and 17C;

“Sheringham Shoal Extension Project” means the Sheringham Shoal Extension Project onshore works and the Sheringham Shoal Extension Project offshore works;

“Sheringham Shoal Extension Project offshore works” means—

- (a) in the event of scenario 1, scenario 2 or scenario 3, Work Nos. 1A to 7A and any authorised development associated with those works; or
- (b) in the event of scenario 4, Work Nos. 1A, 2A, the integrated offshore works and any other authorised development associated with those works;

“Sheringham Shoal Extension Project onshore works” means—

- (a) in the event of scenario 1 or scenario 2, Work Nos. 8A to 22A and any other authorised development associated with those works; or
- (b) in the event of scenario 3, Work Nos. 8A to 14A, the scenario 3 integrated onshore works, 18A to 22A and any other authorised development associated with those works; or
- (c) in the event of scenario 4, Work Nos. 10A, 11A, 13A, 14A, the scenario 4 integrated onshore works, 18A to 22A and any other authorised development associated with any of those works;

“statutory historic body” means Historic England or its successor in function;

“statutory nature conservation body” means an organisation charged by the government with advising on nature conservation matters;

“suction bucket” means a steel cylindrical structure attached to the legs of a jacket or monopile foundation which partially or fully penetrates the seabed and remains in place using its own weight and hydrostatic pressure differential;

“Trinity House” means the Corporation of Trinity House of Deptford Strond;

“UKHO” means the United Kingdom Hydrographic Office of Admiralty Way, Taunton, Somerset, TA1 2DN;

“undertaker” means Scira Extension Limited, company number 12239260, whose registered office is at 1 Kingdom Street, London W2 6BD;

“VHF” means very high frequency;

“vessel” means every description of vessel, however propelled or moved, and includes a non-displacement craft, a personal watercraft, a seaplane on the surface of the water, a hydrofoil vessel, a hovercraft or any other amphibious vehicle and any other thing constructed or adapted for movement through, in, on or over water and which is at the time in, on or over water;

“wind turbine generator” means a structure comprising a tower, a rotor with three blades connected at the hub, a nacelle and ancillary electrical and other equipment which may include J-tubes, transition piece, access and rest platforms, access ladders, boat access systems, corrosion protection systems, fenders and maintenance equipment, helicopter landing facilities and other associated equipment, fixed to a foundation and forming part of the authorised project;

“works plans” means the works plans (offshore) and the works plans (onshore);

“works plans (offshore)” means the plans certified as the works plans (offshore) by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order; and

“works plans (onshore)” means the plans certified as the works plans (onshore) by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order.

(2) In this marine licence, a reference to any statute, order, regulation or similar instrument is a reference to a statute, order, regulation or instrument as amended by any subsequent statute, order, regulation or instrument or as contained in any subsequent re-enactment.

(3) In this marine licence, unless otherwise indicated—

(a) all times are Greenwich Mean Time (“GMT”);

(b) all coordinates are latitude and longitude degrees and minutes to two decimal places.

(4) Unless otherwise stated or agreed with the MMO, all submissions, notifications and communications must be sent by the undertaker to the MMO using MCMS. Except where otherwise notified in writing by the relevant organisation, the addresses for correspondence for the purposes of this marine licence Schedule are—

(a) Historic England

Brooklands

Cambridge

CB2 8BU

Tel: 01223 582749

Email: eastofengland@historicengland.org.uk

(b) Marine Management Organisation

Marine Licensing Team

Lancaster House

Hampshire Court

Newcastle upon Tyne

NE4 7YH

Email: marine.consents@marinemanagement.org.uk

Tel: 0300 123 1032

(c) Marine Management Organisation (local office)

Lowestoft Office

Pakefield Road

Lowestoft

Suffolk

NR33 0HT

Email: lowestoft@marinemanagement.org.uk

Tel: 02080266094

(d) Marine Management Organisation

Marine Pollution Response Team

Tel. (during office hours): 0300 200 2024,

Tel. (outside office hours): 07770 977 825 or 0845 051 8486

Email: dispersants@marinemanagement.org.uk

(e) Maritime and Coastguard Agency

UK Technical Services Navigation

Spring Place

105 Commercial Road

Southampton

SO15 1EG

Tel: 020 3817 2554

Tel: 020 3817 2433

(f) Natural England

Foss House

Kings Pool

1-2 Peasholme Green

York

YO1 7PX

Tel: 0300 060 4911

(g) Trinity House

Tower Hill

London

EC3N 4DH

Tel: 020 7481 6900

(h) United Kingdom Hydrographic Office

Admiralty Way

Taunton

Somerset

TA1 2DN

Tel: 01823 337 900

Details of licensed marine activities

2. Subject to the conditions, this marine licence authorises the undertaker (and any agent or contractor acting on their behalf) to carry out the following licensable marine activities under section 66(1) (licensable marine activities) of the 2009 Act—

- (a) the deposit at sea of the substances and objects specified in paragraph (4) below;
- (b) the construction of works in or over the sea or on or under the seabed;
- (c) dredging for the purposes of seabed preparation for foundation works or cable works;
- (d) the removal of sediment samples for the purposes of informing environmental monitoring under this marine licence during pre-construction, construction and operation;

- (e) site clearance and preparation works including debris, boulder clearance and the removal of out of service cables and static fishing equipment; and
- (f) the disposal of up to 322,327 cubic metres of inert material of natural origin within the Order limits produced during construction drilling or seabed preparation for foundation works and cable works and boulder clearance works at disposal site references to be provided to the MMO within the Order limits seaward of MHWS.

3. Such activities are authorised in relation to the construction, maintenance and operation of—

Work No. 1A— in the event of scenario 1, scenario 2, scenario 3 or scenario 4, an offshore wind turbine generating station with a gross electrical output capacity of more than 100 megawatts comprising up to 23 wind turbine generators each fixed to the seabed by piled monopile, suction bucket monopile, piled jacket, suction bucket jacket or gravity base structure foundations;

Work No. 2A—

- (a) in the event of scenario 1, scenario 2, scenario 3 or scenario 4, a network of subsea in-field cables between the wind turbine generators in Work No. 1A including cable protection and one or more cable crossings; and
- (b) in the event of scenario 1, scenario 2 or scenario 3, a network of subsea in-field cables between the wind turbine generators in Work No. 1A and the offshore substation platform in Work No. 3A including cable protection and one or more cable crossings; or
- (c) in the event of scenario 4, a network of subsea in-field cables between the wind turbine generators in Work No. 1A and the integrated offshore substation platform in Work No. 3C including cable protection and one or more cable crossings; and

Work No. 6A— in the event of scenario 1, scenario 2 or scenario 3, a temporary work area for vessels to carry out intrusive activities and non-intrusive activities alongside Work Nos. 1A, 2A, 3A, 4A and 5A; or

Work No. 6C— in the event of scenario 4, a temporary work area for vessels to carry out intrusive activities and non-intrusive activities alongside Work Nos. 1A, 1B, 2A, 2B, 3C, 4C and 5C.

In connection with such Work Nos. 1A, 2A and 6A or 6C and to the extent that they do not otherwise form part of any such work, further associated development within the meaning of section 115(2) (development for which development consent may be granted) of the 2008 Act comprising such other works as may be necessary or expedient for the purposes of or in connection with the relevant part of the authorised project and which fall within the scope of the work assessed by the environmental statement and the provisions of this marine licence including—

- (a) scour protection around the foundations of the offshore structures;
- (b) cable protection measures such as the placement of rock and/or concrete mattresses, with or without frond devices;
- (c) the removal of material from the seabed required for the construction of Work Nos. 1A and 2A and the disposal of inert material of natural origin within the Order limits produced during construction drilling, seabed preparation for foundation works, cable installation preparation such as sandwave clearance, boulder clearance and pre-trenching; and
- (d) temporary landing places, moorings or other means of accommodating vessels in the construction or maintenance of the authorised project;
- (e) removal of static fishing equipment;
- (f) beacons, fenders and other navigational warning or ship impact protection works;
- (g) disposal of drill arisings in connection with any foundation drilling up to a total of 11,946 cubic metres; and
- (h) temporary deposit and removal of monitoring equipment.

4. The substances and objects authorised for deposit at sea are—

- (a) iron, steel, copper and aluminium;

- (b) stone and rock;
- (c) concrete and grout;
- (d) sand and gravel;
- (e) plastic and synthetic;
- (f) material extracted from within the Order limits during construction drilling or seabed preparation for foundation works and cable sandwave preparation works; and
- (g) marine coatings, other chemicals and timber.

5. The grid coordinates for that part of the authorised project comprising Work Nos. 1A and 2A are specified below—

<i>Point ID</i>	<i>Latitude (DMS)</i>	<i>Longitude (DMS)</i>
1	53° 5' 19,199" N	1° 15' 47,433" E
2	53° 5' 7,813" N	1° 15' 39,929" E
3	53° 5' 20,705" N	1° 14' 48,183" E
4	53° 5' 33,957" N	1° 13' 54,955" E
5	53° 5' 47,202" N	1° 13' 1,718" E
6	53° 5' 47,266" N	1° 13' 1,677" E
7	53° 5' 47,266" N	1° 13' 1,676" E
8	53° 5' 47,540" N	1° 13' 1,498" E
9	53° 5' 47,545" N	1° 13' 1,495" E
10	53° 5' 50,444" N	1° 12' 59,604" E
11	53° 5' 50,506" N	1° 12' 59,565" E
12	53° 6' 19,018" N	1° 12' 40,975" E
13	53° 6' 19,097" N	1° 12' 40,924" E
14	53° 6' 42,962" N	1° 12' 25,364" E
15	53° 6' 43,080" N	1° 12' 25,287" E
16	53° 7' 12,739" N	1° 12' 5,962" E
17	53° 7' 42,397" N	1° 11' 46,630" E
18	53° 7' 49,968" N	1° 11' 41,694" E
19	53° 8' 12,055" N	1° 11' 27,290" E
20	53° 8' 41,711" N	1° 11' 7,942" E
21	53° 8' 41,717" N	1° 11' 7,938" E
22	53° 8' 49,191" N	1° 11' 3,065" E
23	53° 8' 49,206" N	1° 11' 3,056" E
24	53° 8' 57,559" N	1° 10' 57,610" E
25	53° 8' 57,564" N	1° 10' 57,607" E
26	53° 8' 58,833" N	1° 10' 56,779" E
27	53° 8' 58,859" N	1° 10' 56,762" E
28	53° 9' 10,110" N	1° 10' 9,689" E
29	53° 9' 21,357" N	1° 9' 22,609" E
30	53° 9' 32,598" N	1° 8' 35,522" E
31	53° 9' 43,834" N	1° 7' 48,428" E
32	53° 9' 55,065" N	1° 7' 1,328" E
33	53° 10' 6,290" N	1° 6' 14,221" E
34	53° 10' 17,511" N	1° 5' 27,107" E
35	53° 10' 28,726" N	1° 4' 39,986" E
36	53° 10' 46,425" N	1° 3' 19,628" E
37	53° 11' 4,109" N	1° 1' 59,252" E
38	53° 11' 31,621" N	1° 2' 25,520" E
39	53° 11' 59,131" N	1° 2' 51,798" E

40	53° 12' 26,640" N	1° 3' 18,084" E
41	53° 12' 54,148" N	1° 3' 44,380" E
42	53° 13' 21,654" N	1° 4' 10,686" E
43	53° 13' 49,158" N	1° 4' 37,000" E
44	53° 14' 16,661" N	1° 5' 3,324" E
45	53° 14' 44,162" N	1° 5' 29,657" E
46	53° 14' 10,501" N	1° 6' 22,744" E
47	53° 13' 36,833" N	1° 7' 15,807" E
48	53° 13' 3,158" N	1° 8' 8,847" E
49	53° 12' 29,477" N	1° 9' 1,864" E
50	53° 11' 55,788" N	1° 9' 54,857" E
51	53° 11' 22,093" N	1° 10' 47,828" E
52	53° 10' 48,391" N	1° 11' 40,775" E
53	53° 10' 14,683" N	1° 12' 33,700" E
54	53° 7' 19,882" N	1° 17' 7,608" E
55	53° 6' 8,155" N	1° 16' 19,883" E

6. This marine licence remains in force until the authorised project has been decommissioned in accordance with a programme approved by the Secretary of State under section 106 (approval of decommissioning programmes) of the 2004 Act, including any modification to the programme under section 108, and the completion of such programme has been confirmed by the Secretary of State in writing.

7. The provisions of section 72 (variation, suspension, revocation and transfer) of the 2009 Act apply to this marine licence except that the provisions of section 72(7) and (8) relating to the transfer of the licence apply only to a transfer not falling within article 5 (benefit of order) of the Order.

8.—(1) With respect to any condition which requires the licensed activities be carried out in accordance with the details, plans or schemes approved under this marine licence, the approved details, plans or schemes are taken to include any amendments that may subsequently be approved in writing by the MMO.

(2) Any amendments to or variations from the approved details, plans or schemes must be in accordance with the principles and assessments set out in the environmental statement and approval of an amendment or variation may only be given where it has been demonstrated to the satisfaction of the MMO that it is unlikely to give rise to any materially new or materially different environmental effects from those assessed in the environmental statement.

9. Should the undertaker become aware that any of the information on which the granting of this marine licence was based was materially false or misleading, the undertaker must notify the MMO of this fact in writing as soon as is reasonably practicable. The undertaker must explain in writing what information was materially false or misleading and must provide to the MMO the correct information.

PART 2

Conditions

Design parameters

Wind turbine generators

- 1.—(1) Wind turbine generators forming part of the authorised project must not—
 - (a) exceed a height of 330 metres when measured from HAT to the tip of the vertical blade;
 - (b) exceed a rotor diameter of 300 metres;

- (c) be less than 1.05 kilometres from the nearest wind turbine generator in any direction; or
- (d) not used;
- (e) exceed 23 wind turbine generators in respect of the Sheringham Shoal Extension Project offshore works; or
- (f) exceed 30 wind turbine generators in respect of the Dudgeon Extension Project offshore works.

(2) Within Work No. 1A, the total rotor swept area and the corresponding air gap must accord with the parameters specified below:

<i>Maximum Total Rotor Swept Area (km²)</i>	<i>Minimum Air Gap (m²)</i>
1.01	30
1.13	31
1.42	32

(3) References to the location of a wind turbine generator are references to the centre point at the base of the wind turbine generator.

Wind turbine generator foundations

2.—(1) Wind turbine generator foundations must be of one or more of the following foundation options: piled monopile, suction bucket monopile, piled jacket, suction bucket jacket or gravity base structure.

(2) No wind turbine generator piled monopile or suction bucket monopile foundation may—

- (a) have a pile diameter exceeding 16 metres; or
- (b) employ a hammer energy during installation exceeding 5,500 kilojoules.

(3) No wind turbine generator gravity base structure foundation may—

- (a) have a seabed base plate exceeding 60 metres in diameter; or
- (b) have a gravel footing exceeding 62 metres in diameter.

(4) No wind turbine generator piled jacket or suction bucket jacket foundation may—

- (a) have more than four legs;
- (b) have more than four piles;
- (c) have a pile diameter exceeding four metres; or
- (d) employ a hammer energy during installation exceeding 3,000 kilojoules.

(5) Within Work No. 1A, the wind turbine generator foundations must not have:

- (a) a total combined seabed footprint (including scour protection) exceeding 483,491 square metres;
- (b) a total combined amount of scour protection exceeding 429,770 square metres; or
- (c) a total combined volume of scour protection exceeding 1,074,425 cubic metres.

Cables and cable crossings

3.—(1) Within Work No. 2A, the in-field cables must not, in total—

- (a) exceed 36 in number;
- (b) exceed 90 kilometres in length;
- (c) exceed 0 cable crossings;
- (d) have cable protection (including cable crossings) exceeding 4,000 square metres in area; or
- (e) have cable protection (including cable crossings) exceeding 1,000 cubic metres in volume.

Scenarios and Phases of authorised project

4.—(1) The authorised project must not be commenced until a notification has been submitted to the MMO as to whether the undertaker intends to commence scenario 1, scenario 2, scenario 3 or scenario 4.

(2) The notification required under sub-paragraph (1) must be submitted to the MMO prior to submission of the written scheme to be submitted for approval under sub-paragraph (3).

(3) The authorised project must not be commenced until a written scheme setting out (with regards to the relevant scenario notified under sub-paragraph (1)) the phases of construction of the authorised project has been submitted to and approved in writing by the MMO.

(4) Any subsequent amendments to the written scheme submitted for approval under sub-paragraphs (3) must be submitted to, and approved by, the MMO.

(5) The written scheme submitted for approval under sub-paragraphs (3) must be implemented as approved. The approved details shall be taken to include any amendment that may subsequently be approved in accordance with sub-paragraph (4).

Vessels under the undertaker's control

5. The undertaker must issue to operators of vessels under the undertaker's control operating within the Order limits a code of conduct to reduce risk of injury to marine mammals.

Extension of time periods

6. Any time period given in this marine licence to either the undertaker or the MMO may be extended with the agreement of the other party, such agreement not to be unreasonably withheld or delayed.

Notifications and inspections

7.—(1) The undertaker must ensure that—

- (a) a copy of this marine licence (issued as part of the grant of the Order) and any subsequent amendments or revisions to it is provided to—
 - (i) all agents and contractors notified to the MMO in accordance with condition 17;
 - (ii) the masters and transport managers responsible for the vessels notified to the MMO in accordance with condition 17;
- (b) within 28 days of receipt of a copy of this marine licence and any subsequent amendments or revisions to it, those persons referred to in sub-paragraph (1)(a) must confirm receipt of this marine licence in writing to the MMO.

(2) Only those persons and vessels notified to the MMO in accordance with condition 17 are permitted to carry out the licensed activities.

(3) Copies of this marine licence must also be available for inspection at the following locations—

- (a) the undertaker's registered address;
- (b) any site office located at or adjacent to the construction site and used by the undertaker or its agents and contractors responsible for the loading, transportation or deposit of the authorised deposits; and
- (c) on board each vessel and at the office of any transport manager with responsibility for vessels from which authorised deposits or removals are to be made.

(4) The documents referred to in sub-paragraph (1)(a) must be available for inspection by an authorised enforcement officer at the locations set out in sub-paragraph (3)(b).

(5) The undertaker must provide access, and if necessary appropriate transportation, to the offshore construction site or any other associated works or vessels to facilitate any inspection that the MMO considers necessary to inspect the works during the construction and operation of the authorised project.

(6) The undertaker must inform the MMO local Office in writing at least five days prior to the commencement of the licensed activities or any part of them and within five days of the completion of the licensed activity.

(7) The undertaker must inform the Kingfisher Information Service of Seafish by email to kingfisher@seafish.co.uk of details of the vessel routes, timings and locations relating to the construction of the authorised project or relevant part—

- (a) at least 14 days prior to the commencement of offshore activities, for inclusion in the Kingfisher Fortnightly Bulletin and offshore hazard awareness data;
- (b) on completion of construction of all offshore activities,
and confirmation of notification must be provided to the MMO within five days.

(8) The undertaker must ensure that a local notification to mariners is issued at least 14 days prior to the commencement of the authorised project or any part thereof advising of the start date of each of Work Nos. 1A and 2A and the expected vessel routes from the construction ports to the relevant location. Copies of all notices must be provided to the MMO, MCA and UKHO within five days.

(9) The undertaker must ensure that local notifications to mariners are updated and reissued at weekly intervals during construction activities and at least five days before any planned operations (or otherwise agreed) and maintenance works and supplemented with VHF radio broadcasts agreed with the MCA in accordance with the construction programme and monitoring plan approved under condition 13(1)(b). Copies of all notices must be provided to the MMO and UKHO within five days.

(10) The undertaker must notify UKHO of—

- (a) commencement of the licensed activities at least ten working days prior to commencement;
and
- (b) completion (within 14 days) of the authorised project or any part thereof
in order that all necessary amendments to nautical charts are made. Copies of all notices must be provided to the MMO and MCA within five days.

(11) In case of damage to, or destruction or decay of, the authorised project or any part thereof, excluding the exposure of cables, the undertaker must as soon as reasonably practicable and no later than 24 hours following the undertaker becoming aware of any such damage, destruction or decay, notify the MMO, MCA, Trinity House, the Kingfisher Information Service of Seafish and UKHO.

(12) In case of the exposure of cables on or above the seabed, the undertaker must within three days following identification of a potential cable exposure, notify mariners and inform the Kingfisher Information Service of Seafish of the location and extent of exposure. Copies of all notices must be provided to the MMO, MCA, Trinity House, and UKHO within five days.

Aids to navigation

8.—(1) The undertaker must during the whole of the period from commencement of construction of the authorised project to completion of decommissioning of the authorised project exhibit such lights, marks, sounds, signals and other aids to navigation, and take such other steps for the prevention of danger to navigation, as Trinity House may from time to time direct.

(2) The undertaker must during the period from commencement of construction of the authorised project to completion of decommissioning of the authorised project keep Trinity House and the MMO informed of progress of the authorised project including—

- (a) notice of commencement of construction of the authorised project within 24 hours of commencement having occurred;
- (b) notice within 24 hours of any aids to navigation being established by the undertaker; and
- (c) notice within five days of completion of construction of the authorised project.

(3) The undertaker must provide reports to Trinity House on the availability of aids to navigation in accordance with the frequencies set out in the aids to navigation management plan agreed pursuant to condition 13(1)(g) using the reporting system provided by Trinity House.

(4) The undertaker must during the period from commencement of the licensed activities to completion of decommissioning of the authorised project notify Trinity House and the MMO of any failure of the aids to navigation, and the timescales and plans for remedying such failures, as soon as possible and no later than 24 hours following the undertaker becoming aware of any such failure.

(5) In the event that the provisions of condition 7(11) or condition 7(12) are invoked, the undertaker must lay down such buoys, exhibit such lights and take such other steps for preventing danger to navigation as directed by Trinity House.

Colouring of Structures

9. Except as otherwise required by Trinity House, the undertaker must paint all structures forming part of the authorised project yellow (colour code RAL 1023) from at least HAT to a height as directed by Trinity House. Unless the MMO otherwise directs, the undertaker must paint the remainder of the structures grey (colour code RAL 7035).

Aviation safety

10.—(1) The undertaker must exhibit such lights, with such shape, colour and character as are required in writing by the Air Navigation Order 2016^(a) and determined necessary for aviation safety in consultation with the Defence Infrastructure Organisation Safeguarding and as directed by the Civil Aviation Authority.

(2) The undertaker must notify the Defence Infrastructure Organisation Safeguarding, the Civil Aviation Authority and the MMO, at least 14 days prior to the commencement of the authorised project, in writing of the following information—

- (a) the date of the commencement of construction of the authorised project;
- (b) the date any wind turbine generators are to be installed;
- (c) the maximum height of any construction equipment or vessels to be used;
- (d) the maximum height of each wind turbine generator to be constructed;
- (e) the latitude and longitude of each wind turbine generator to be constructed;

and the Defence Infrastructure Organisation Safeguarding and the Civil Aviation Authority must be notified of any changes to the information supplied under this paragraph and of the completion of the construction of the authorised project. Copies of notifications must be provided to the MMO within 5 days.

Chemicals, drilling and debris

11.—(1) Unless otherwise agreed in writing by the MMO, the carriage and use of chemicals in the construction of the authorised project must comply with the International Convention for the Prevention of Pollution from Ships 1973 as modified by the Protocol of 1978 relating thereto and by the Protocol of 1997.

(2) The undertaker must ensure that any coatings and treatments are suitable for use in the marine environment and are used in accordance with guidelines approved by the Health and Safety Executive and the Environment Agency Pollution Prevention Control Guidelines.

(3) The storage, handling, transport and use of fuels, lubricants, chemicals and other substances must be undertaken so as to prevent releases into the marine environment, including bunding of 110 percent of the total volume of all reservoirs and containers.

(4) The undertaker must inform the MMO in writing of the location and quantities of material disposed of each month under this marine licence by submission of a disposal return by 15 February each year for the months August to January inclusive, and by 15 August each year for the months February to July inclusive.

(a) S.I. 2016/765.

(5) The undertaker must ensure that only inert material of natural origin, produced during the drilling installation of or seabed preparation for foundations, and drilling mud is disposed of within the Order limits seaward of MHWS.

(6) The undertaker must ensure that any rock material used in the construction of the authorised project is from a recognised source, free from contaminants and containing minimal fines.

(7) In the event that any rock material used in the construction of the authorised project is misplaced or lost below MHWS, the undertaker must report the loss in writing to the local enforcement office within 24 hours and if the MMO, in consultation with the MCA and Trinity House, reasonably considers such material to constitute a navigation or environmental hazard (dependent on the size and nature of the material) the undertaker must, in that event, demonstrate to the MMO that reasonable attempts have been made to locate, remove or move any such material.

(8) The undertaker must ensure that no waste concrete slurry or wash water from concrete or cement works are discharged into the marine environment. Concrete and cement mixing and washing areas must be contained to prevent run off entering the water through the freeing ports.

(9) The undertaker must ensure that any oil, fuel or chemical spill within the marine environment is reported to the MMO Marine Pollution Response Team in accordance with the marine pollution contingency plan agreed under condition 13(1)(d)(i).

(10) All dropped objects must be reported to the MMO using the Dropped Object Procedure Form as soon as reasonably practicable and in any event within 24 hours of the undertaker becoming aware of an incident. On receipt of the Dropped Object Procedure Form the MMO may require relevant surveys to be carried out by the undertaker (such as side scan sonar) if reasonable to do so and the MMO may require obstructions to be removed from the seabed at the undertaker's expense if reasonable to do so.

Force majeure

12. If, due to stress of weather or any other cause, the master of a vessel determines that it is necessary to deposit the authorised deposits within or outside of the Order limits because the safety of human life or of the vessel is threatened, within 48 hours the undertaker must notify full details of the circumstances of the deposit to the MMO.

Pre-construction plans and documentation

13.—(1) The licensed activities or any phase of those activities must not commence until the following (insofar as relevant to that activity or phase of activity) have been submitted to and approved in writing by the MMO, in consultation with Trinity House, the MCA and UKHO as appropriate—

- (a) a plan prepared in accordance with the layout commitments setting out proposed details of the authorised project, including the:
 - (i) number, dimensions, specification, foundation type(s) and depth for each wind turbine generator, offshore platform and substation;
 - (ii) the grid coordinates of the centre point of the proposed location for each wind turbine generator, platform and substation;
 - (iii) proposed layout of all cables;
 - (iv) location and specification of all other aspects of the authorised project; and
 - (v) any exclusion zones or micro-siting requirements identified pursuant to 13(1)(e)(v) or relating to any benthic habitats of conservation, ecological or economic importance constituting Annex I reef habitats identified as part of surveys undertaken in accordance with condition 18

to ensure conformity with the description of Work No. 1A and 2A and compliance with conditions 1 to 3;

- (b) a construction programme and monitoring plan (which accords with the offshore in principle monitoring plan) which, save in respect of information submitted pursuant to sub-

paragraph (b)(iii)(aa), is to be submitted to the MMO at least six months prior to commencement of licensed activities and to include details of—

- (i) the proposed construction start date;
 - (ii) proposed timings for mobilisation of plant delivery of materials and installation works;
 - (iii) proposed pre-construction surveys, baseline report format and content, construction monitoring, post-construction surveys and monitoring and related reporting in accordance with conditions 18, 19 and 20 to be submitted to the MMO in accordance with the following (unless otherwise agreed in writing with the MMO) —
 - (aa) at least four months prior to the first survey, detail of the pre-construction surveys and an outline of all proposed pre-construction monitoring;
 - (bb) at least four months prior to construction, detail on construction monitoring; and
 - (cc) at least four months prior to commissioning, detail of post-construction (and operational) monitoring;
 - (iv) an indicative written construction programme for all wind turbine generators and cables including fibre optic cables comprised in the works at Part 1 (licensed marine activities) of this Schedule (insofar as not shown in paragraph (ii) above);
- (c) a construction method statement in accordance with the construction methods assessed in the environmental statement, including details of—
- (i) cable specification, installation and monitoring to include—
 - (aa) the technical specification of cables below MHWS;
 - (bb) a detailed cable laying plan for the authorised project, incorporating a burial risk assessment encompassing the identification of any cable protection that exceeds 5 percent of navigable depth referenced to Chart Datum and, in the event that any area of cable protection exceeding 5 percent of navigable depth is identified, details of any steps (to be determined following consultation with the MCA and Trinity House) to be taken to ensure existing and future safe navigation is not compromised or similar such assessment to ascertain suitable burial depths and cable laying techniques, including cable protection; and
 - (cc) proposals for monitoring cables including cable protection until the authorised project is decommissioned which includes a risk-based approach to the management of unburied or shallow buried cables;
 - (ii) scour protection and cable protection including details of the need, type, sources, quantity and installation methods for scour protection and cable protection, with details updated and resubmitted for approval if changes to it are proposed following cable laying operations;
 - (iii) foundation installation methodology, including drilling methods and disposal of drill arisings and material extracted during seabed preparation for foundation and cable installation works and having regard to any mitigation scheme pursuant to sub-paragraph (1)(a)(i);
 - (iv) advisory safe passing distances for vessels around construction sites;
 - (v) contractors;
 - (vi) vessels and vessel transit corridors;
 - (vii) associated ancillary works; and
 - (viii) guard vessels to be employed;
- (d) a project environmental management plan (in accordance with the outline project environmental management plan) covering the period of construction and operation to include details of—

- (i) a marine pollution contingency plan to address the risks, methods and procedures to deal with any spills and collision incidents during construction and operation of the authorised project in relation to all activities carried out;
 - (ii) a chemical risk assessment, including information regarding how and when chemicals are to be used, stored and transported in accordance with recognised best practice guidance;
 - (iii) waste management and disposal arrangements;
 - (iv) the appointment and responsibilities of a fisheries liaison officer;
 - (v) a fisheries liaison and coexistence plan (which accords with the outline fisheries liaison and co-existence plan) to ensure relevant fishing fleets are notified of commencement of licensed activities pursuant to condition 4 and to address the interaction of the licensed activities with fishing activities; and
 - (vi) procedures, which must be adopted within vessel transit corridors to minimise disturbance to red-throated diver during the period 1 November to 31 March (inclusive), which must be in accordance with the best practice protocol for minimising disturbance to red throated diver;
 - (vii) a code of conduct for vessel operators to reduce risk of injury to mammals;
- (e) an archaeological written scheme of investigation in relation to the offshore Order limits seaward of MHWS, which must accord with the outline written scheme of investigation (offshore) and industry good practice, in consultation with the statutory historic body to include—
- (i) details of responsibilities of the undertaker, archaeological consultant and contractor;
 - (ii) a methodology for further site investigation including any specifications for geophysical, geotechnical and diver or remotely operated vehicle investigations;
 - (iii) archaeological analysis of survey data, and timetable for reporting, which is to be submitted to the MMO within four months of any survey being completed;
 - (iv) delivery of any mitigation including, where necessary, identification and modification of archaeological exclusion zones;
 - (v) monitoring of archaeological exclusion zones during and post construction;
 - (vi) a requirement for the undertaker to ensure that a copy of any agreed archaeological report is deposited with the Archaeological Data Service, by submitting an OASIS ('Online Access to the Index of archaeological investigations') form with a digital copy of the report within six months of completion of construction of the authorised project, and to notify the MMO and Historic England that the OASIS form has been submitted to the Archaeological Data Service within two weeks of submission;
 - (vii) a reporting and recording protocol, including reporting of any wreck or wreck material during construction, operation and decommissioning of the authorised project; and
 - (viii) a timetable for all further site investigations, which must allow sufficient opportunity to establish a full understanding of the historic environment within the offshore Order limits and the approval of any necessary mitigation required as a result of the further site investigations prior to commencement of licensed activities;
- (f) an offshore operations and maintenance plan (in accordance with the outline offshore operations and maintenance plan), to be submitted to the MMO at least six months prior to commencement of operation of the licensed activities and to provide for review and resubmission every three years during the operational phase;
- (g) an aids to navigation management plan to be agreed in writing by the MMO following consultation with Trinity House specifying how the undertaker will ensure compliance with condition 8 from the commencement of construction of the authorised project to the completion of decommissioning;
- (h) in the event that driven or part-driven pile foundations are proposed to be used, a marine mammal mitigation protocol (in accordance with the draft marine mammal mitigation

protocol), the intention of which is to prevent injury to marine mammals, following current best practice as advised by the relevant statutory nature conservation bodies, to be submitted to the MMO at least six months prior to commencement of licensed activities;

- (i) a mitigation scheme for any benthic habitats of conservation, ecological and/or economic importance constituting Annex I reef habitats identified by the survey referred to in condition 18(4)(a) and in accordance with the offshore in principle monitoring plan;
- (j) an ornithological monitoring plan setting out the circumstances in which ornithological monitoring will be required and the monitoring to be carried out in such circumstances to be submitted to the MMO at least six months prior to commencement of licensed activities; and
- (k) a navigation management plan to manage crew transfer vessels (including daughter craft) during the construction and operation of the authorised project.

(2) Pre-commencement surveys and archaeological investigations and pre-commencement material operations which involve intrusive seabed works must only take place in accordance with a specific outline written scheme of investigation (which must accord with the details set out in the outline written scheme of investigation (offshore)) which has been submitted to and approved by the MMO.

Site Integrity Plan

14.—(1) No piling activities can take place until a Site Integrity Plan (“SIP”), which accords with the principles set out in the in principle Site Integrity Plan for the Southern North Sea Special Area of Conservation, has been submitted to, and approved in writing, by the MMO in consultation with the relevant statutory nature conservation body.

(2) The SIP submitted for approval must contain a description of the conservation objectives for the Southern North Sea Special Area of Conservation (“SNS SAC”) as well as any relevant management measures and it must set out the key statutory nature conservation body advice on activities within the SNS SAC relating to piling as set out within the JNCC Guidance and how this has been considered in the context of the authorised project.

(3) The SIP must be submitted in writing to the MMO no later than six months prior to the commencement of piling activities.

(4) In approving the SIP the MMO must be satisfied that the authorised project at the preconstruction stage, in-combination with other plans and projects, is in line with the JNCC Guidance.

(5) The approved SIP may be amended with the prior written approval of the MMO, in consultation with the relevant statutory nature conservation body, where the MMO remains satisfied that the authorised project, in-combination with other plans or projects at the pre-construction stage, is in line with the JNCC Guidance.

Approval of programmes, statements etc

15.—(1) Each programme, statement, plan, protocol or scheme required to be approved under condition 13 must be submitted in writing for approval at least four months prior to the intended commencement of licensed activities, except where otherwise stated or unless otherwise agreed in writing by the MMO.

(2) The MMO must determine an application for approval made under conditions 13 and 14 within a period of four months commencing on the date the application is received by the MMO, unless otherwise agreed in writing with the undertaker.

(3) The licensed activities must be carried out in accordance with the plans, protocols, statements, schemes and details approved under conditions 13 and 14, unless otherwise agreed in writing by the MMO.

Offshore safety management

16. No part of the authorised project may commence until the MMO, in consultation with the MCA, has confirmed in writing that the undertaker has taken into account and, so far as is applicable to that stage of the authorised project, adequately addressed all MCA recommendations as appropriate to the authorised project contained within MGN654 “Offshore Renewable Energy Installations (OREIs) – Guidance on UK Navigational Practice, Safety and Emergency Response Issues” (or any equivalent guidance that replaces or supersedes it) and its annexes.

Reporting of engaged agents, contractors and vessels

17.—(1) The undertaker must provide the following information in writing to the MMO—

- (a) the name, function, company number (if applicable), registered or head office address (as appropriate) of any agent or contractor appointed to engage in the licensed activities within seven days of appointment; and
- (b) each week during the construction of the authorised project a completed Hydrographic Note H102 listing the vessels currently and to be used in relation to the licensed activities.

(2) The undertaker must notify the MMO in writing of any vessel being used to carry on any licensed activity listed in this marine licence on behalf of the undertaker. 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

(3) Any changes to the supplied details must be notified to the MMO in writing at least 24 hours before the agent, contractor or vessel engages in the licensed activities.

Pre-construction monitoring and surveys

18.—(1) The undertaker must, in discharging condition 13(1)(b), submit a monitoring plan or plans in accordance with the offshore in principle monitoring plan for written approval by the MMO in consultation with the relevant statutory nature conservation body, which must contain details of proposed monitoring and surveys, including methodologies and timings, and a proposed format and content for a pre-construction baseline report.

(2) The survey proposals submitted under sub-paragraph (1) must be in general accordance with the principles set out in the offshore in principle monitoring plan and must specify each survey’s objectives and explain how it will assist in either informing a useful and valid comparison with the post-construction position or will enable the validation or otherwise of key predictions in the environmental statement.

(3) The baseline report proposals submitted under sub-paragraph (1) must ensure that the outcome of the agreed surveys, together with existing data and reports, are drawn together to present a valid statement of the pre-construction position, with any limitations, and must make clear what post-construction comparison is intended and the justification for this being required.

(4) The pre-construction surveys referred to in sub-paragraph (1) must, unless otherwise agreed with the MMO, have due regard to, but not be limited to, the need to undertake—

- (a) an appropriate survey to determine the location, extent and composition of any benthic habitats of conservation, ecological and/or economic importance constituting Annex 1 reef habitats in the parts of the Order limits in which it is proposed to carry out construction works;
- (b) a swath-bathymetry survey to IHO Order 1a standard that meets the requirements of MGN654 and its annexes, and side scan sonar, of the area(s) within the Order limits in which it is proposed to carry out construction works;
- (c) undertake any ornithological monitoring required by the ornithological monitoring plan submitted in accordance with condition 13(1)(j); and
- (d) undertake or contribute to any marine mammal monitoring referred to in the marine mammal mitigation protocol submitted in accordance with condition 13(1)(h).

(5) The undertaker must carry out the surveys specified within the monitoring plan or plans in accordance with that plan or plans, unless otherwise agreed in writing by the MMO in consultation with the relevant statutory nature conservation body.

Construction monitoring and surveys

19.—(1) The undertaker must, in discharging condition 13(1)(b), submit details (which accord with the offshore in principle monitoring plan) for approval in writing by the MMO in consultation with the relevant statutory nature conservation bodies of any proposed monitoring and surveys, including methodologies and timings, to be carried out during the construction of the authorised project. The survey proposals must specify each survey's objectives.

(2) In the event that driven or part-driven pile foundations are proposed, such monitoring must include measurements of noise generated by the installation of the first four piled foundations of each piled foundation type to be installed unless the MMO otherwise agrees in writing.

(3) The undertaker must carry out the surveys approved under sub-paragraph (1), including any further noise monitoring required in writing by the MMO, and provide the agreed reports in the agreed format in accordance with the agreed timetable, unless otherwise agreed in writing with the MMO in consultation with the relevant statutory nature conservation bodies.

(4) The results of the initial noise measurements monitored in accordance with sub-paragraph (2) must be provided to the MMO within six weeks of the installation of the first four piled foundations. The assessment of this report by the MMO will determine whether any further noise monitoring is required. If, in the reasonable opinion of the MMO in consultation with the relevant statutory nature conservation body, the assessment shows significantly different impacts to those assessed in the environmental statement or failures in mitigation, all piling activity must cease until an update to the marine mammal mitigation protocol and further monitoring requirements have been agreed.

(5) The undertaker must carry out the surveys specified in the construction monitoring plan in accordance with that plan, including any further noise monitoring required in writing by the MMO under sub-paragraph (4), unless otherwise agreed in writing by the MMO in consultation with the relevant statutory nature conservation body.

(6) Construction monitoring must include vessel traffic monitoring in accordance with the outline marine traffic monitoring plan, including the provision of reports on the results of that monitoring at the end of each year of the construction period to the MMO, MCA and Trinity House.

(7) In the event that piled foundations are proposed to be used, the details submitted in accordance with the marine mammal mitigation protocol must include proposals for monitoring marine mammals.

Post-construction monitoring and surveys

20.—(1) The undertaker must, in discharging condition 13(1)(b), submit details (which accord with the offshore in principle monitoring plan) for approval in writing by the MMO in consultation with relevant statutory nature conservation bodies of proposed post-construction monitoring and surveys, including methodologies and timings, and a proposed format, content and timings for providing reports on the results.

(2) The survey proposals must specify each survey's objectives and explain how it will assist in either informing a useful and valid comparison with the pre-construction position and/or will enable the validation or otherwise of key predictions in the environmental statement.

(3) The post-construction surveys referred to in sub-paragraph (1) must, unless otherwise agreed in writing with the MMO, have due regard to, but not be limited to, the need to—

- (a) undertake an appropriate survey to determine any change in the location, extent and composition of any benthic habitats of conservation, ecological and/or economic importance constituting Annex 1 reef habitats identified in the pre-construction survey in the parts of the Order limits in which construction works were carried out. The survey design must be informed by the results of the pre-construction benthic survey;

- (b) undertake, within 12 months of completion of the licensed activities, a full sea floor coverage swath-bathymetry survey that meets the requirements of MGN654 and its annexes, and side scan sonar, of the area(s) within the Order limits in which construction works were carried out to assess any changes in bedform topography and such further monitoring or assessment as may be agreed to ensure that cables (including fibre optic cables) have been buried or protected;
- (c) undertake any ornithological monitoring required by the ornithological monitoring plan submitted in accordance with condition 13(1)(j);
- (d) undertake post-construction traffic monitoring in accordance with the outline marine traffic monitoring plan, including the provision of reports on the results of that monitoring to the MMO, MCA and Trinity House; and
- (e) undertake or contribute to any marine mammal monitoring referred to in the marine mammal mitigation protocol submitted in accordance with condition 13(1)(h).

(4) The undertaker must carry out the surveys agreed under sub-paragraph (1) and provide the agreed reports to the MMO in the agreed format in accordance with the agreed timetable, unless otherwise agreed in writing with the MMO in consultation with the relevant statutory nature conservation bodies.

(5) Following installation of cables, the cable monitoring plan required under condition 13(1)(c) must be updated with the results of the post installation surveys. The plan must be implemented until the authorised project is decommissioned and reviewed as specified within the plan, following cable burial surveys, or as instructed by the MMO.

(6) In the event that the reports provided to the MMO under sub-paragraph (4) identify a need for additional monitoring, the requirement for any additional monitoring will be agreed with the MMO in writing and implemented as agreed.

(7) In the event that the reports provided to the MMO under sub-paragraph (4) identify impacts which are unanticipated and or beyond those predicted within the Environmental Statement and Habitats Regulations Assessment an adaptive management plan to reduce effects to within what was predicted with the Environmental Statement and Habitats Regulations Assessment, unless otherwise agreed in writing by the MMO, must be submitted alongside the monitoring reports submitted under sub-paragraph (4). This plan must be agreed with the MMO in consultation with the relevant statutory nature conservation bodies to reduce effects to an agreed suitable level for this project. Any such agreed and approved adaptive management or mitigation should be implemented and monitored in full to a timetable first agreed in writing with the MMO. In the event that this adaptive management or mitigation requires a separate consent, the undertaker shall apply for such consent. Where a separate consent is required to undertake the agreed adaptive management or mitigation, the undertaker shall only be required to undertake the adaptive management or mitigation once the consent is granted.

Reporting of scour and cable protection

21.—(1) Not more than four months following completion of the construction of the authorised project, the undertaker must provide the MMO and the relevant statutory nature conservation bodies with a report setting out details of the cable protection and scour protection used for the authorised project.

(2) The report must include the following information—

- (a) the location of cable protection and scour protection;
- (b) the volume of cable protection and scour protection; and
- (c) any other information relating to the cable protection and scour protection as agreed between the MMO and the undertaker.

Completion of construction

22.—(1) The undertaker must submit a close out report to the MMO, the MCA, Trinity House, UKHO and the relevant statutory nature conservation body within three months of the date of

completion of construction. The close out report must confirm the date of completion of construction and must include the following details—

- (a) the final number of installed turbine generators;
- (b) the installed wind turbine generator parameters;
- (c) as built plans;
- (d) latitude and longitude coordinates of the centre point of the location for each wind turbine generator and offshore platform, substation and booster station, provided as Geographical Information System data referenced to WGS84 datum; and
- (e) latitude and longitude coordinates of the in-field cables, provided as Geographical Information System data referenced to WGS84 datum.

(2) Following completion of construction, no further construction activities can be undertaken under this marine licence.

Sediment Sampling

23.—(1) The undertaker must submit a sample plan request in writing to the MMO for written approval of a sample plan.

(2) The sample plan request must be made—

- (a) for capital dredging, at least six months prior to the commencement of any capital dredging; or
- (b) for maintenance dredging, at least six months prior to the end of every third year from the date of the previous sediment sample analysis.

(3) The sample plan request must include details of—

- (a) the volume of material to be dredged;
- (b) the location of the area to be dredged;
- (c) details of the material type proposed for dredging;
- (d) the type and dredging methodology (including whether it is a capital or maintenance dredge, depth of material to be dredged and proposed programme for the dredging activities); and
- (e) the location and depth of any supporting samples.

(4) Unless otherwise agreed by the MMO, the undertaker must undertake the sampling in accordance with the approved sample plan.

Collaboration

24.—(1) Prior to submission of plans and documentation required to be submitted to the MMO for approval in accordance with conditions 13 and 14, the undertaker must provide a copy of the relevant plans and documentation to DEL to enable DEL to provide any comments on the plans and documentation to the undertaker.

(2) The plans and documentation submitted to the MMO for approval in accordance with conditions 13 and 14 must be accompanied by any comments received by the undertaker from DEL in accordance with sub-paragraph (1) or a statement from the undertaker confirming that no such comments were received.

SCHEDULE 11

Article 30

Marine Licence 2: Dudgeon Extension Project Offshore Generation – Work No. 1B, 2B and Work No. 6B or 6C

PART 1

Licensed marine activities

Interpretation

1.—(1) In this marine licence—

“the 2004 Act” means the Energy Act 2004;

“the 2008 Act” means the Planning Act 2008;

“the 2009 Act” means the Marine and Coastal Access Act 2009;

“the 2017 Regulations” means the Conservation of Offshore Marine Habitats and Species Regulations 2017;

“air gap” means the distance between the lowest point of the rotating blade of a wind turbine generator and HAT;

“Annex 1 reef” means a reef of a type listed in Annex 1 to Council Directive 92/43/EEC on the conservation of natural habitats and of wild fauna and flora;

“authorised deposits” means the substances and articles specified in paragraph 4 of Part 1 of this marine licence;

“authorised project” means Work No. 1B, 2B and Work No. 6B or 6C and the further associated development described in paragraph 3 of Part 1 of this marine licence or any part of that work or development;

“buoy” means any floating device used for navigational purposes or measurement purposes including LiDAR buoys, wave buoys and guard buoys;

“cable” includes cables for the transmission of electricity and fibre-optic cables;

“cable crossing” means the crossing of existing subsea cables and pipelines by the array, inter-array or export cables authorised by the Order and forming part of the authorised project together with physical protection measures including cable protection;

“cable protection” means measures to protect cables forming part of the authorised project from physical damage and exposure due to loss of seabed sediment including, but not limited to, rock placement, mattresses with or without frond devices, protective aprons or coverings, bagged solutions filled with sand, rock, grout or other materials and protective shells;

“commence” means the first carrying out of any licensed marine activities authorised by this marine licence, save for pre-construction monitoring surveys approved under this marine licence, and “commenced” and “commencement” must be construed accordingly;

“commercial operation” means in relation to any part of the authorised project, the exporting, transmission or conversion, on a commercial basis, of electricity;

“Cromer Shoal Chalk Beds MCZ” means the Marine Conservation Zone designated by the Secretary of State under the Cromer Shoal Chalk Beds Marine Conservation Zone Designation Order 2016;

“Defence Infrastructure Organisation Safeguarding” means Ministry of Defence Safeguarding, Defence Infrastructure Organisation, St George’s House, DIO Head Office, DMS Whittington, Lichfield, Staffordshire, WS14 9PY and any successor body to its functions;

“DEL” means Dudgeon Extension Limited, company number 12148301, whose registered office is at 1 Kingdom Street, London W2 6BD;

“DEP North” means the array extension area located to the north of DOW;

“DEP South” means the array extension area located to the south of DOW;

“DOW” means the Dudgeon Offshore Wind Farm;

“draft marine mammal mitigation protocol” means the document certified as the draft marine mammal mitigation protocol by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order;

“Dudgeon Extension Project” means the Dudgeon Extension Project offshore works and the Dudgeon Extension Project onshore works;

“Dudgeon Extension Project offshore works” means—

- (a) in the event of scenario 1, scenario 2 or scenario 3, Work Nos. 1B to 7B and any other authorised development associated with those works; or
- (b) in the event of scenario 4, Work Nos. 1B, 2B, the integrated offshore works and any other authorised development associated with those works;

“Dudgeon Extension Project onshore works” means—

- (a) in the event of scenario 1 or scenario 2, Work Nos. 8B to 22B and any other authorised development associated with those works; or
- (b) in the event of scenario 3, Work Nos. 8B to 14B, the scenario 3 integrated onshore works, Work Nos. 18B to 22B, and any other authorised development associated with those works;
- (c) in the event of scenario 4, Work Nos. 10B, 11B, 13B, 14B, the scenario 4 integrated onshore works, Work Nos. 18B to 22B, and any other authorised development associated with those works;

“environmental statement” means the document certified as the environmental statement by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order;

“gravity base structure foundation” means a structure principally of steel, concrete, or steel and concrete which rests on the seabed either due to its own weight with or without added ballast, skirts or other additional fixings, and associated equipment including scour protection, J-tubes, corrosion protection systems, access platforms and equipment and separate topside connection structures or integrated transition pieces;

“HAT” means highest astronomical tide;

“HVAC” means high voltage alternating current;

“in-field cable” means a subsea cable linking two or more offshore structures;

“in principle Site Integrity Plan for the Southern North Sea Special Area of Conservation” means the document certified as the in principle Site Integrity Plan for the Southern North Sea Special Area of Conservation by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order;

“integrated offshore substation platform” means a single offshore substation platform to be constructed and operated for the benefit of both SEL and DEL;

“integrated offshore works” means Work Nos. 3C, 4C, 5C, 6C and 7C;

“interlink cable” means a subsea cable linking two offshore areas;

“intrusive activities” means activities including anchoring of vessels, jacking up of vessels, temporary deposits and temporary wet storage areas;

“jacket foundation” means a lattice type structure constructed of steel, which may include scour protection and additional equipment such as J-tubes, corrosion protection systems and access platforms;

“JNCC Guidance” means the statutory nature conservation body ‘Guidance for assessing the significance of noise disturbance against Conservation Objectives of harbour porpoise SACs’

Joint Nature Conservation Committee Report No.654, May 2020 published in June 2020 as amended, updated or superseded from time to time;

“joint bay” means an excavation located at regular intervals along the cable route consisting of a concrete flat base slab constructed beneath the ground to facilitate the jointing together of the cables;

“LAT” means lowest astronomical tide;

“land plans” means the plans certified as the land plans by the Secretary of State under article 37 of the Order;

“layout commitments” means the layout commitments contained within the navigation risk assessment at appendix 13.1 of the environmental statement;

“licensed activities” means the activities specified in Part 1 of this licence;

“maintain” includes inspect, upkeep, repair, adjust and alter the authorised project; in relation to any of the ancillary works, any cable, any component part of any wind turbine generator (including a component part of its foundation or transition piece), any component part of any offshore substation platform (including a component part of its foundation), further includes remove, reconstruct and replace (including the replenishment of cable and scour protection); and in all cases to the extent assessed in the environmental statement; and “maintenance” must be construed accordingly;

“Marine Management Organisation” means the body created under the 2009 Act which is responsible for the regulation of this marine licence or any successor of that function and “MMO” must be construed accordingly;

“MCA” means the Maritime and Coastguard Agency, the executive agency of the Department for Transport;

“MCMS” means the Marine Case Management System web portal provided and operated by the MMO;

“MHWS” or “mean high water springs” means the highest level that spring tides reach on average over a period of time;

“MLWS” or “mean low water springs” means the lowest level that spring tides reach on average over a period of time;

“monopile foundation” means a steel pile driven or drilled into the seabed and associated equipment including scour protection, J-tubes, corrosion protection systems and access platforms and equipment;

“offshore in principle monitoring plan” means the document certified as the offshore in principle monitoring plan by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order;

“offshore order limits and grid coordinates plan” means the plans certified as the offshore order limits and grid coordinates plan by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order;

“offshore substation platform” means a structure above LAT and attached to the seabed by means of a foundation, with one or more decks and open with modular equipment or fully clad, containing—

- (a) electrical equipment required to switch, transform or convert electricity generated at the wind turbine generators to a higher voltage and provide reactive power compensation, including high voltage power transformers, high voltage switchgear and busbars, substation auxiliary systems and low voltage distribution, instrumentation, metering equipment and control systems, standby generators, shunt reactors, auxiliary and uninterruptible power supply systems;
- (b) accommodation, storage, workshop auxiliary equipment and facilities for operating, maintaining and controlling the substation or wind turbine generators, including navigation, aviation and safety marking and lighting, systems for vessel access and retrieval, cranes, potable water supply, black water separation, stores, fuels and spares, communications systems and control hub facilities;

“offshore works” means—

- (a) in the event of scenario 1, scenario 2 or scenario 3, Work Nos. 1A to 7A, 1B to 7B and any other authorised development associated with those works;
- (b) in the event of scenario 4, Work Nos. 1A, 1B, 2A, 2B, the integrated offshore works, and any other authorised development associated with those works;

“onshore works” means—

- (a) in the event of scenario 1 or scenario 2, Work Nos. 8A to 22A, 8B to 22B and any other authorised development associated with those works; or
- (b) in the event of scenario 3, Work Nos. 8A to 14A, 8B to 14B, the scenario 3 integrated onshore works, 18A to 22A, 18B to 22B and any other authorised development associated with those works; or
- (c) in the event of scenario 4, Work Nos. 10A, 10B, 11A, 11B, 13A, 13B, 14A, 14B, 18A to 22A and 18B to 22B, the scenario 4 integrated onshore works and any other authorised development associated with those works;

“Order” means The Sheringham Shoal and Dudgeon Extensions Offshore Wind Farm Order 2024;

“Order land” means the land shown on the land plans which is within the limits of land to be acquired or used and described in the book of reference;

“Order limits” means the limits shown on the offshore order limits and grid coordinates plans within which the authorised project may be carried out and the grid coordinates for Work Nos. 1B and 2B are set out in paragraph 5 of Part 1 of this marine licence;

“outline fisheries liaison and co-existence plan” means the document certified as the outline fisheries liaison and co-existence plan by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order;

“outline marine traffic monitoring plan” means the document certified as the outline marine traffic monitoring plan by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order;

“outline offshore operations and maintenance plan” means the document certified as the outline offshore operations and maintenance plan by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order;

“outline project environmental management plan” means the document certified as the outline project environmental management plan by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order;

“outline written scheme of investigation (offshore)” means the document certified as the outline written scheme of investigation (offshore) by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order;

“scour protection” means measures to prevent loss of seabed sediment around any structure placed in or on the seabed including by the use of bagged solutions, filled with grout or other materials, protective aprons, mattresses with or without frond devices, flow energy dissipation devices and rock and gravel placement;

“SEL” means Scira Extension Limited, company number 12239260, whose registered office is at 1 Kingdom Street, London W2 6BD;

“scenario 1” means each generating station will be constructed in any one of the following ways—

- (a) the construction of the Sheringham Shoal Extension Project only where the Dudgeon Extension Project does not proceed to construction;
- (b) the construction of the Dudgeon Extension Project only where the Sheringham Shoal Extension Project does not proceed to construction;
- (c) sequential construction where the Sheringham Shoal Extension Project is constructed first then the Dudgeon Extension Project is constructed second or vice versa; or

(d) concurrent construction of the Sheringham Shoal Extension Project and the Dudgeon Extension Project;

“scenario 2” means a sequential construction scenario in which either the Sheringham Shoal Extension Project is constructed first and SEL installs the ducts for the Dudgeon Extension Project or the Dudgeon Extension Project is constructed first and DEL installs the ducts for the Sheringham Shoal Extension Project;

“scenario 3” means—

(a) sequential or concurrent construction of Work Nos. 1A to 14A, 18A to 22A 1B to 14B, 18B to 22B; and

(b) construction of the scenario 3 integrated onshore works;

“scenario 3 integrated onshore works” means Work Nos. 15C to 17C;

“scenario 4” means—

(a) sequential or concurrent construction of Work Nos. 1A, 1B, 2A, 2B, 10A, 10B, 11A, 11B, 13A, 13B, 14A, 14B, 18A to 22A, 18B to 22B; and

(b) construction of the integrated offshore works and the scenario 4 integrated onshore works;

“scenario 4 integrated onshore works” means 8C, 9C, 12C, 15C, 16C and 17C;

“Sheringham Shoal Extension Project” means the Sheringham Shoal Extension Project onshore works and the Sheringham Shoal Extension Project offshore works;

“Sheringham Shoal Extension Project offshore works” means—

(a) in the event of scenario 1, scenario 2 or scenario 3, Work Nos. 1A to 7A and any authorised development associated with those works; or

(b) in the event of scenario 4, Work Nos. 1A, 2A, the integrated offshore works and any other authorised development associated with those works;

“Sheringham Shoal Extension Project onshore works” means—

(a) in the event of scenario 1 or scenario 2, Work Nos. 8A to 22A and any other authorised development associated with those works; or

(b) in the event of scenario 3, Work Nos. 8A to 14A, the scenario 3 integrated onshore works, 18A to 22A and any other authorised development associated with those works; or

(c) in the event of scenario 4, Work Nos. 10A, 11A, 13A, 14A, the scenario 4 integrated onshore works, 18A to 22A and any other authorised development associated with any of those works;

“statutory historic body” means Historic England or its successor in function;

“statutory nature conservation body” means an organisation charged by the government with advising on nature conservation matters;

“suction bucket” means a steel cylindrical structure attached to the legs of a jacket or monopile foundation which partially or fully penetrates the seabed and remains in place using its own weight and hydrostatic pressure differential;

“Trinity House” means the Corporation of Trinity House of Deptford Strond;

“UKHO” means the United Kingdom Hydrographic Office of Admiralty Way, Taunton, Somerset, TA1 2DN;

“undertaker” means Dudgeon Extension Limited, company number 12148301, whose registered office is at 1 Kingdom Street, London W2 6BD;

“VHF” means very high frequency;

“vessel” means every description of vessel, however propelled or moved, and includes a non-displacement craft, a personal watercraft, a seaplane on the surface of the water, a hydrofoil vessel, a hovercraft or any other amphibious vehicle and any other thing constructed or adapted for movement through, in, on or over water and which is at the time in, on or over water;

“wind turbine generator” means a structure comprising a tower, a rotor with three blades connected at the hub, a nacelle and ancillary electrical and other equipment which may include

J-tubes, transition piece, access and rest platforms, access ladders, boat access systems, corrosion protection systems, fenders and maintenance equipment, helicopter landing facilities and other associated equipment, fixed to a foundation and forming part of the authorised project;

“works plans” means the works plans (offshore) and the works plans (onshore);

“works plans (offshore)” means the plans certified as the works plans (offshore) by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order; and

“works plans (onshore)” means the plans certified as the works plans (onshore) by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order.

(2) In this marine licence, a reference to any statute, order, regulation or similar instrument is a reference to a statute, order, regulation or instrument as amended by any subsequent statute, order, regulation or instrument or as contained in any subsequent re-enactment.

(3) In this marine licence, unless otherwise indicated—

(a) all times are Greenwich Mean Time (“GMT”);

(b) all coordinates are latitude and longitude degrees and minutes to two decimal places.

(4) Unless otherwise stated or agreed with the MMO, all submissions, notifications and communications must be sent by the undertaker to the MMO using MCMS. Except where otherwise notified in writing by the relevant organisation, the addresses for correspondence for the purposes of this marine licence are—

(a) Historic England Brooklands

24 Brooklands Avenue

Cambridge

CB2 8BU

Tel: 01223 582749

Email: eastofengland@historicengland.org.uk

(b) Marine Management Organisation

Marine Licensing Team

Lancaster House

Hampshire Court

Newcastle upon Tyne

NE4 7YH

Email: marine.consents@marinemanagement.org.uk

Tel: 0300 123 1032

(c) Marine Management Organisation (local office)

Lowestoft Office

Pakefield Road

Lowestoft

Suffolk

NR33 0HT

Email: lowestoft@marinemanagement.org.uk

Tel: 02080266094

(d) Marine Management Organisation

Marine Pollution Response Team

Tel. (during office hours): 0300 200 2024,

Tel. (outside office hours): 07770 977 825 or 0845 051 8486

Email: dispersants@marinemanagement.org.uk

- (e) Maritime and Coastguard Agency
UK Technical Services Navigation
Spring Place
105 Commercial Road
Southampton
SO15 1EG
Tel: 020 3817 2554
- (f) Natural England
Foss House
Kings Pool
1-2 Peasholme Green
York
YO1 7PX
Tel: 0300 060 4911
- (g) Trinity House
Tower Hill
London
EC3N 4DH
Tel: 020 7481 6900
- (h) United Kingdom Hydrographic Office
Admiralty Way
Taunton
Somerset
TA1 2DN
Tel: 01823 337 900

Details of licensed marine activities

2. Subject to the conditions this marine licence authorises the undertaker (and any agent or contractor acting on their behalf) to carry out the following licensable marine activities under section 66(1) (licensable marine activities) of the 2009 Act—

- (a) the deposit at sea of the substances and objects specified in paragraph (4) below;
- (b) the construction of works in or over the sea or on or under the sea bed;
- (c) dredging for the purposes of seabed preparation for foundation works or cable works;
- (d) the removal of sediment samples for the purposes of informing environmental monitoring under this marine licence during pre-construction, construction and operation;
- (e) site clearance and preparation works including debris, boulder clearance and the removal of out of service cables and static fishing equipment; and
- (f) the disposal of up to 595,050 cubic metres of inert material of natural origin within the Order limits produced during construction drilling or seabed preparation for foundation works and cable works and boulder clearance works at disposal site references to be provided to the MMO within the Order limits seaward of MHWS.

3. Such activities are authorised in relation to the construction, maintenance and operation of—

Work No. 1B— in the event of scenario 1, scenario 2, scenario 3 or scenario 4, an offshore wind turbine generating station with a gross electrical output capacity of more than 100 megawatts comprising up to 30 wind turbine generators located either all in DEP North or split between DEP

North and DEP South each fixed to the seabed by piled monopile, suction bucket monopile, piled jacket, suction bucket jacket or gravity base structure foundations;

Work No. 2B—

- (a) in the event of scenario 1, scenario 2, scenario 3 or scenario 4, a network of subsea in-field cables between the wind turbine generators in Work No. 1B including cable protection and one or more cable crossings; and
- (b) in the event of scenario 1, scenario 2 or scenario 3, a network of subsea in-field cables between the wind turbine generators in Work No. 1B and Work No. 3B including cable protection and one or more cable crossings.

Work No. 6B— in the event of scenario 1, scenario 2 or scenario 3, a temporary work area for vessels to carry out intrusive activities and non-intrusive activities alongside Work Nos. 1B, 2B, 3B, 4B and 5B; or

Work No. 6C— in the event of scenario 4, a temporary work area for vessels to carry out intrusive activities and non-intrusive activities alongside Work Nos. 1A, 1B, 2A, 2B, 3C, 4C and 5C;

In connection with such Work No. 1B, 2B and 6B or 6C and to the extent that they do not otherwise form part of any such work, further associated development within the meaning of section 115(2) (development for which development consent may be granted) of the 2008 Act comprising such other works as may be necessary or expedient for the purposes of or in connection with the relevant part of the authorised project and which fall within the scope of the work assessed by the environmental statement and the provisions of this marine licence including—

- (c) scour protection around the foundations of the offshore structures;
- (d) cable protection measures such as the placement of rock and/or concrete mattresses, with or without frond devices;
- (e) the removal of material from the seabed required for the construction of Work No. 1B and 2B and the disposal of inert material of natural origin within the Order limits produced during construction drilling, seabed preparation for foundation works, cable installation preparation such as sandwave clearance, and boulder clearance and pre-trenching;
- (f) temporary landing places, moorings or other means of accommodating vessels in the construction or maintenance of the authorised project;
- (g) removal of static fishing equipment;
- (h) beacons, fenders and other navigational warning or ship impact protection works;
- (i) disposal of drill arisings in connection with any foundation drilling up to a total of 11,946 cubic metres; and
- (j) temporary deposit and removal of monitoring equipment.

4. The substances and objects authorised for deposit at sea are—

- (a) iron, steel, copper and aluminium;
- (b) stone and rock;
- (c) concrete and grout;
- (d) sand and gravel;
- (e) plastic and synthetic;
- (f) material extracted from within the Order limits during construction drilling or seabed preparation for foundation works and cable sandwave preparation works; and
- (g) marine coatings, other chemicals and timber.

5. The grid coordinates for that part of the authorised project comprising Work No. 1B and 2B are specified below—

<i>Point ID</i>	<i>Latitude (DMS)</i>	<i>Longitude (DMS)</i>
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DEP North

1	53° 21' 9,563" N	1° 15' 42,020" E
2	53° 21' 9,584" N	1° 16' 30,130" E
3	53° 21' 9,602" N	1° 17' 32,335" E
4	53° 20' 46,340" N	1° 18' 7,238" E
5	53° 20' 58,886" N	1° 18' 37,507" E
6	53° 21' 16,936" N	1° 18' 58,324" E
7	53° 21' 24,406" N	1° 19' 46,805" E
8	53° 21' 27,180" N	1° 20' 4,816" E
9	53° 21' 37,414" N	1° 21' 11,318" E
10	53° 21' 47,638" N	1° 22' 17,828" E
11	53° 21' 57,851" N	1° 23' 24,348" E
12	53° 21' 25,995" N	1° 23' 42,880" E
13	53° 20' 54,139" N	1° 24' 1,404" E
14	53° 20' 5,326" N	1° 24' 0,033" E
15	53° 19' 36,128" N	1° 24' 8,276" E
16	53° 19' 9,827" N	1° 24' 23,580" E
17	53° 18' 34,113" N	1° 25' 3,960" E
18	53° 18' 17,503" N	1° 25' 24,511" E
19	53° 18' 0,222" N	1° 25' 39,259" E
20	53° 17' 15,148" N	1° 26' 5,612" E
21	53° 17' 35,036" N	1° 25' 24,340" E
22	53° 17' 54,920" N	1° 24' 43,056" E
23	53° 18' 14,801" N	1° 24' 1,762" E
24	53° 18' 34,677" N	1° 23' 20,458" E
25	53° 18' 35,113" N	1° 22' 55,059" E
26	53° 18' 9,353" N	1° 22' 14,077" E
27	53° 18' 55,523" N	1° 20' 33,698" E
28	53° 18' 18,216" N	1° 19' 28,603" E
29	53° 18' 23,044" N	1° 19' 18,170" E
30	53° 16' 40,497" N	1° 19' 9,998" E
31	53° 17' 29,099" N	1° 18' 30,623" E
32	53° 18' 17,849" N	1° 17' 51,100" E
33	53° 18' 52,654" N	1° 17' 33,836" E
34	53° 19' 27,459" N	1° 17' 16,563" E
35	53° 19' 41,748" N	1° 17' 0,577" E
36	53° 20' 6,981" N	1° 16' 32,339" E
37	53° 20' 32,550" N	1° 15' 58,780" E
38	53° 20' 0,390" N	1° 14' 40,388" E
39	53° 19' 31,548" N	1° 13' 30,141" E
40	53° 19' 2,699" N	1° 12' 19,932" E
41	53° 19' 34,347" N	1° 11' 47,739" E
42	53° 20' 5,992" N	1° 11' 15,533" E
43	53° 20' 37,635" N	1° 10' 43,313" E
44	53° 21' 9,275" N	1° 10' 11,081" E
45	53° 21' 9,340" N	1° 11' 6,237" E
46	53° 21' 9,399" N	1° 12' 1,393" E
47	53° 21' 9,451" N	1° 12' 56,550" E
48	53° 21' 9,495" N	1° 13' 51,706" E
49	53° 21' 9,533" N	1° 14' 46,863" E

DEP South

50	53° 12' 13,889" N	1° 25' 43,653" E
51	53° 12' 35,764" N	1° 25' 45,404" E
52	53° 14' 5,405" N	1° 25' 52,576" E
53	53° 13' 44,764" N	1° 27' 26,148" E
54	53° 13' 21,538" N	1° 28' 1,214" E
55	53° 12' 58,309" N	1° 28' 36,270" E
56	53° 12' 35,077" N	1° 29' 11,315" E
57	53° 12' 11,842" N	1° 29' 46,349" E
58	53° 11' 48,603" N	1° 30' 21,373" E
59	53° 11' 25,362" N	1° 30' 56,387" E
60	53° 11' 2,118" N	1° 31' 31,390" E
61	53° 10' 38,872" N	1° 32' 6,382" E
62	53° 10' 16,470" N	1° 31' 10,439" E
63	53° 9' 54,062" N	1° 30' 14,512" E
64	53° 9' 31,646" N	1° 29' 18,602" E
65	53° 9' 9,223" N	1° 28' 22,708" E
66	53° 9' 18,541" N	1° 27' 23,002" E
67	53° 9' 42,205" N	1° 26' 28,216" E
68	53° 10' 5,861" N	1° 25' 33,413" E
69	53° 12' 11,085" N	1° 25' 43,428" E

6. This marine licence remains in force until the authorised project has been decommissioned in accordance with a programme approved by the Secretary of State under section 106 (approval of decommissioning programmes) of the 2004 Act, including any modification to the programme under section 108, and the completion of such programme has been confirmed by the Secretary of State in writing.

7. The provisions of section 72 (variation, suspension, revocation and transfer) of the 2009 Act apply to this marine licence except that the provisions of section 72(7) and (8) relating to the transfer of the marine licence apply only to a transfer not falling within article 5 (benefit of order) of the Order.

8.—(1) With respect to any condition which requires the licensed activities be carried out in accordance with the details, plans or schemes approved under this marine licence, the approved details, plans or schemes are taken to include any amendments that may subsequently be approved in writing by the MMO.

(2) Any amendments to or variations from the approved details, plans or schemes must be in accordance with the principles and assessments set out in the environmental statement and approval of an amendment or variation may only be given where it has been demonstrated to the satisfaction of the MMO that it is unlikely to give rise to any materially new or materially different environmental effects from those assessed in the environmental statement.

9. Should the undertaker become aware that any of the information on which the granting of this marine licence was based was materially false or misleading, the undertaker must notify the MMO of this fact in writing as soon as is reasonably practicable. The undertaker must explain in writing what information was materially false or misleading and must provide to the MMO the correct information.

PART 2

Conditions

Design parameters

Wind turbine generators

- 1.—(1) Wind turbine generators forming part of the authorised project must not—
- (a) exceed a height of 330 metres when measured from HAT to the tip of the vertical blade;
 - (b) exceed a rotor diameter of 300 metres;
 - (c) be less than 1.05 kilometres from the nearest wind turbine generator in any direction;
 - (d) not used;
 - (e) exceed 23 wind turbine generators in respect of the Sheringham Shoal Extension Project offshore works; or
 - (f) exceed 30 wind turbine generators in respect of the Dudgeon Extension Project offshore works.

(2) Within Work No. 1B, the total rotor swept area and the corresponding air gap must accord with the parameters specified below:

<i>Maximum Total Rotor Swept Area (km²)</i>	<i>Minimum Air Gap (m²)</i>
1.31	30
1.47	31
1.85	32

(3) References to the location of a wind turbine generator are references to the centre point at the base of the wind turbine generator.

Wind turbine generator foundations

2.—(1) Wind turbine generator foundations must be of one or more of the following foundation options: piled monopile, suction bucket monopile, piled jacket, suction bucket jacket or gravity base structure.

(2) No wind turbine generator piled monopile or suction bucket monopile foundation may—

- (a) have a pile diameter exceeding 16 metres; or
- (b) employ a hammer energy during installation exceeding 5,500 kilojoules.

(3) No wind turbine generator gravity base structure foundation may—

- (a) have a seabed base plate exceeding 60 metres in diameter; or
- (b) have a gravel footing exceeding 62 metres in diameter.

(4) No wind turbine generator piled jacket or suction bucket jacket foundation may—

- (a) have more than four legs;
- (b) have more than four piles;
- (c) have a pile diameter exceeding four metres; or
- (d) employ a hammer energy during installation exceeding 3,000 kilojoules.

(5) Within Work No. 1B, the wind turbine generator foundations must not have:

- (a) a total combined seabed footprint (including scour protection) exceeding 610,726 square metres;
- (b) a total combined amount of scour protection exceeding 542,867 square metres; or
- (c) a total combined volume of scour protection exceeding 1,357,168 cubic metres.

Cables and cable crossings

- 3.—(1) Within Work No. 2B, the in-field cables must not, in total—
- (a) exceed 54 in number;
 - (b) exceed 135 kilometres in length;
 - (c) exceed five cable crossings;
 - (d) have cable protection (including cable crossings) exceeding 13,590 square metres in area;
or
 - (e) have cable protection (including cable crossings) exceeding 6,900 cubic metres in volume.

Scenarios and Phases of authorised project

4.—(1) The authorised project must not be commenced until a notification has been submitted to the MMO as to whether the undertaker intends to commence scenario 1, scenario 2, scenario 3 or scenario 4.

(2) The notification required under sub-paragraph (1) must be submitted to the MMO prior to submission of the written scheme to be submitted for approval under sub-paragraph (3).

(3) The authorised project must not be commenced until a written scheme setting out (with regards to the relevant scenario notified under sub-paragraph (1)) the phases of construction of the authorised project has been submitted to and approved in writing by the MMO.

(4) Any subsequent amendments to the written scheme submitted for approval under sub-paragraphs (3) must be submitted to, and approved by, the MMO.

(5) The written scheme submitted for approval under sub-paragraphs (3) must be implemented as approved. The approved details shall be taken to include any amendment that may subsequently be approved in accordance with sub-paragraph (4).

Vessels under the undertaker's control

5. The undertaker must issue to operators of vessels under the undertaker's control operating within the Order limits a code of conduct to reduce risk of injury to marine mammals.

Extension of time periods

6. Any time period given in this marine licence to either the undertaker or the MMO may be extended with the agreement of the other party, such agreement not to be unreasonably withheld or delayed.

Notifications and inspections

7.—(1) The undertaker must ensure that—

- (a) a copy of this marine licence (issued as part of the grant of the Order) and any subsequent amendments or revisions to it is provided to—
 - (i) all agents and contractors notified to the MMO in accordance with condition 17;
 - (ii) the masters and transport managers responsible for the vessels notified to the MMO in accordance with condition 17;
- (b) within 28 days of receipt of a copy of this marine licence and any subsequent amendments or revisions to it, those persons referred to in sub-paragraph (1)(a) must confirm receipt of this marine licence in writing to the MMO.

(2) Only those persons and vessels notified to the MMO in accordance with condition 17 are permitted to carry out the licensed activities.

(3) Copies of this marine licence must also be available for inspection at the following locations—

- (a) the undertaker's registered address;

- (b) any site office located at or adjacent to the construction site and used by the undertaker or its agents and contractors responsible for the loading, transportation or deposit of the authorised deposits; and
 - (c) on board each vessel and at the office of any transport manager with responsibility for vessels from which authorised deposits or removals are to be made.
- (4) The documents referred to in sub-paragraph (1)(a) must be available for inspection by an authorised enforcement officer at the locations set out in sub-paragraph (3)(b).
- (5) The undertaker must provide access, and if necessary appropriate transportation, to the offshore construction site or any other associated works or vessels to facilitate any inspection that the MMO considers necessary to inspect the works during the construction and operation of the authorised project.
- (6) The undertaker must inform the MMO local Office in writing at least five days prior to the commencement of the licensed activities or any part of them and within five days of the completion of the licensed activity.
- (7) The undertaker must inform the Kingfisher Information Service of Seafish by email to kingfisher@seafish.co.uk of details of the vessel routes, timings and locations relating to the construction of the authorised project or relevant part—
- (a) at least 14 days prior to the commencement of offshore activities, for inclusion in the Kingfisher Fortnightly Bulletin and offshore hazard awareness data;
 - (b) on completion of construction of all offshore activities,
- and confirmation of notification must be provided to the MMO within five days.
- (8) The undertaker must ensure that a local notification to mariners is issued at least 14 days prior to the commencement of the authorised project or any part thereof advising of the start date of each of Work Nos. 1B and 2B and the expected vessel routes from the construction ports to the relevant location. Copies of all notices must be provided to the MMO, MCA and UKHO within five days.
- (9) The undertaker must ensure that local notifications to mariners are updated and reissued at weekly intervals during construction activities and at least five days before any planned operations (or otherwise agreed) and maintenance works and supplemented with VHF radio broadcasts agreed with the MCA in accordance with the construction programme and monitoring plan approved under condition 13(1)(b). Copies of all notices must be provided to the MMO and UKHO within five days.
- (10) The undertaker must notify UKHO of—
- (a) commencement of the licensed activities at least ten working days prior to commencement; and
 - (b) completion (within 14 days) of the authorised project or any part thereof,
- in order that all necessary amendments to nautical charts are made. Copies of all notices must be provided to the MMO and MCA within five days.
- (11) In case of damage to, or destruction or decay of, the authorised project or any part thereof, excluding the exposure of cables, the undertaker must as soon as reasonably practicable and no later than 24 hours following the undertaker becoming aware of any such damage, destruction or decay, notify the MMO, MCA, Trinity House, the Kingfisher Information Service of Seafish and UKHO.
- (12) In case of the exposure of cables on or above the seabed, the undertaker must within three days following identification of a potential cable exposure, notify mariners and inform the Kingfisher Information Service of Seafish of the location and extent of exposure. Copies of all notices must be provided to the MMO, MCA, Trinity House, and UKHO within five days.

Aids to navigation

8.—(1) The undertaker must during the whole of the period from commencement of construction of the authorised project to completion of decommissioning of the authorised project exhibit such lights, marks, sounds, signals and other aids to navigation, and take such other steps for the prevention of danger to navigation, as Trinity House may from time to time direct.

(2) The undertaker must during the period from commencement of construction of the authorised project to completion of decommissioning of the authorised project keep Trinity House and the MMO informed of progress of the authorised project including—

- (a) notice of commencement of construction of the authorised project within 24 hours of commencement having occurred;
- (b) notice within 24 hours of any aids to navigation being established by the undertaker; and
- (c) notice within five days of completion of construction of the authorised project.

(3) The undertaker must provide reports to Trinity House on the availability of aids to navigation in accordance with the frequencies set out in the aids to navigation management plan agreed pursuant to condition 13(1)(g) using the reporting system provided by Trinity House.

(4) The undertaker must during the period from commencement of the licensed activities to completion of decommissioning of the authorised project notify Trinity House and the MMO of any failure of the aids to navigation, and the timescales and plans for remedying such failures, as soon as possible and no later than 24 hours following the undertaker becoming aware of any such failure.

(5) In the event that the provisions of condition 7(11) or condition 7(12) are invoked the undertaker must lay down such buoys, exhibit such lights and take such other steps for preventing danger to navigation as directed by Trinity House.

Colouring of Structures

9. Except as otherwise required by Trinity House the undertaker must paint all structures forming part of the authorised project yellow (colour code RAL 1023) from at least HAT to a height as directed by Trinity House. Unless the MMO otherwise directs, the undertaker must paint the remainder of the structures grey (colour code RAL 7035).

Aviation safety

10.—(1) The undertaker must exhibit such lights, with such shape, colour and character as are required in writing by the Air Navigation Order 2016 and determined necessary for aviation safety in consultation with the Defence Infrastructure Organisation Safeguarding and as directed by the Civil Aviation Authority.

(2) The undertaker must notify the Defence Infrastructure Organisation Safeguarding, the Civil Aviation Authority and the MMO, at least 14 days prior to the commencement of the authorised project, in writing of the following information—

- (a) the date of the commencement of construction of the authorised project;
- (b) the date any wind turbine generators are to be installed;
- (c) the maximum height of any construction equipment or vessels to be used;
- (d) the maximum height of each wind turbine generator to be constructed;
- (e) the latitude and longitude of each wind turbine generator to be constructed;

and the Defence Infrastructure Organisation Safeguarding and the Civil Aviation Authority must be notified of any changes to the information supplied under this paragraph and of the completion of the construction of the authorised project. Copies of notifications must be provided to the MMO within 5 days.

Chemicals, drilling and debris

11.—(1) Unless otherwise agreed in writing by the MMO, the carriage and use of chemicals in the construction of the authorised project must comply with the International Convention for the Prevention of Pollution from Ships 1973 as modified by the Protocol of 1978 relating thereto and by the Protocol of 1997.

(2) The undertaker must ensure that any coatings and treatments are suitable for use in the marine environment and are used in accordance with guidelines approved by the Health and Safety Executive and the Environment Agency Pollution Prevention Control Guidelines.

(3) The storage, handling, transport and use of fuels, lubricants, chemicals and other substances must be undertaken so as to prevent releases into the marine environment, including bunding of 110 percent of the total volume of all reservoirs and containers.

(4) The undertaker must inform the MMO in writing of the location and quantities of material disposed of each month under this marine licence by submission of a disposal return by 15 February each year for the months August to January inclusive, and by 15 August each year for the months February to July inclusive.

(5) The undertaker must ensure that only inert material of natural origin, produced during the drilling installation of or seabed preparation for foundations, and drilling mud is disposed of within the Order limits seaward of MHWS.

(6) The undertaker must ensure that any rock material used in the construction of the authorised project is from a recognised source, free from contaminants and containing minimal fines.

(7) In the event that any rock material used in the construction of the authorised project is misplaced or lost below MHWS, the undertaker must report the loss in writing to the local enforcement office within 24 hours and if the MMO, in consultation with the MCA and Trinity House, reasonably considers such material to constitute a navigation or environmental hazard (dependent on the size and nature of the material) the undertaker must, in that event, demonstrate to the MMO that reasonable attempts have been made to locate, remove or move any such material.

(8) The undertaker must ensure that no waste concrete slurry or wash water from concrete or cement works are discharged into the marine environment. Concrete and cement mixing and washing areas must be contained to prevent run off entering the water through the freeing ports.

(9) The undertaker must ensure that any oil, fuel or chemical spill within the marine environment is reported to the MMO Marine Pollution Response Team in accordance with the marine pollution contingency plan agreed under condition 13(1)(d)(i).

(10) All dropped objects must be reported to the MMO using the Dropped Object Procedure Form as soon as reasonably practicable and in any event within 24 hours of the undertaker becoming aware of an incident. On receipt of the Dropped Object Procedure Form the MMO may require relevant surveys to be carried out by the undertaker (such as side scan sonar) if reasonable to do so and the MMO may require obstructions to be removed from the seabed at the undertaker's expense if reasonable to do so.

Force majeure

12. If, due to stress of weather or any other cause, the master of a vessel determines that it is necessary to deposit the authorised deposits within or outside of the Order limits because the safety of human life or of the vessel is threatened, within 48 hours the undertaker must notify full details of the circumstances of the deposit to the MMO.

Pre-construction plans and documentation

13.—(1) The licensed activities or any phase of those activities must not commence until the following (insofar as relevant to that activity or phase of activity) have been submitted to and approved in writing by the MMO, in consultation with Trinity House, the MCA and UKHO as appropriate —

- (a) a plan prepared in accordance with the layout commitments setting out proposed details of the authorised project, including the:
 - (i) number, dimensions, specification, foundation type(s) and depth for each wind turbine generator, offshore platform and substation;
 - (ii) the grid coordinates of the centre point of the proposed location for each wind turbine generator, platform and substation;
 - (iii) proposed layout of all cables;
 - (iv) location and specification of all other aspects of the authorised project; and

- (v) any exclusion zones or micro-siting requirements identified pursuant to 13(1)(e)(v) or relating to any benthic habitats of conservation, ecological or economic importance constituting Annex I reef habitats identified as part of surveys undertaken in accordance with condition 18;

to ensure conformity with the description of Work No. 1B and 2B and compliance with conditions 1 to 3;

- (b) a construction programme and monitoring plan (which accords with the offshore in principle monitoring plan) which, save in respect of information submitted pursuant to subparagraph (b)(iii)(aa), is to be submitted to the MMO at least six months prior to commencement of licensed activities and to include details of—
 - (i) the proposed construction start date;
 - (ii) proposed timings for mobilisation of plant delivery of materials and installation works;
 - (iii) proposed pre-construction surveys, baseline report format and content, construction monitoring, post-construction surveys and monitoring and related reporting in accordance with conditions 18, 19 and 20 to be submitted to the MMO in accordance with the following (unless otherwise agreed in writing with the MMO)—
 - (aa) at least four months prior to the first survey, detail of the pre-construction surveys and an outline of all proposed pre-construction monitoring;
 - (bb) at least four months prior to construction, detail on construction monitoring; and
 - (cc) at least four months prior to commissioning, detail of post-construction (and operational) monitoring;
 - (iv) an indicative written construction programme for all wind turbine generators and cables including fibre optic cables comprised in the works at Part 1 (licensed marine activities) of this Schedule (insofar as not shown in paragraph (ii) above);
- (c) a construction method statement in accordance with the construction methods assessed in the environmental statement, including details of—
 - (i) cable specification, installation and monitoring to include—
 - (aa) the technical specification of cables below MHWS;
 - (bb) a detailed cable laying plan for the authorised project, incorporating a burial risk assessment encompassing the identification of any cable protection that exceeds 5 percent of navigable depth referenced to Chart Datum and, in the event that any area of cable protection exceeding 5 percent of navigable depth is identified, details of any steps (to be determined following consultation with the MCA and Trinity House) to be taken to ensure existing and future safe navigation is not compromised or similar such assessment to ascertain suitable burial depths and cable laying techniques, including cable protection; and
 - (cc) proposals for monitoring cables including cable protection until the authorised project is decommissioned which includes a risk-based approach to the management of unburied or shallow buried cables;
 - (ii) scour protection and cable protection including details of the need, type, sources, quantity and installation methods for scour protection and cable protection, with details updated and resubmitted for approval if changes to it are proposed following cable laying operations;
 - (iii) foundation installation methodology, including drilling methods and disposal of drill arisings and material extracted during seabed preparation for foundation and cable installation works and having regard to any mitigation scheme pursuant to subparagraph (1)(a)(i);
 - (iv) advisory safe passing distances for vessels around construction sites;
 - (v) contractors;
 - (vi) vessels and vessel transit corridors;

- (vii) associated ancillary works; and
- (viii) guard vessels to be employed;
- (d) a project environmental management plan (in accordance with the outline project environmental management plan) covering the period of construction and operation to include details of—
 - (i) a marine pollution contingency plan to address the risks, methods and procedures to deal with any spills and collision incidents during construction and operation of the authorised project in relation to all activities carried out;
 - (ii) a chemical risk assessment, including information regarding how and when chemicals are to be used, stored and transported in accordance with recognised best practice guidance;
 - (iii) waste management and disposal arrangements;
 - (iv) the appointment and responsibilities of a fisheries liaison officer;
 - (v) a fisheries liaison and coexistence plan (which accords with the outline fisheries liaison and co-existence plan) to ensure relevant fishing fleets are notified of commencement of licensed activities pursuant to condition 4 and to address the interaction of the licensed activities with fishing activities; and
 - (vi) procedures, which must be adopted within vessel transit corridors to minimise disturbance to red-throated diver during the period 1 November to 31 March (inclusive), which must be in accordance with the best practice protocol for minimising disturbance to red throated diver;
 - (vii) a code of conduct for vessel operators to reduce risk of injury to mammals;
- (e) an archaeological written scheme of investigation in relation to the offshore Order limits seaward of MHWS, which must accord with the outline written scheme of investigation (offshore) and industry good practice, in consultation with the statutory historic body to include—
 - (i) details of responsibilities of the undertaker, archaeological consultant and contractor;
 - (ii) a methodology for further site investigation including any specifications for geophysical, geotechnical and diver or remotely operated vehicle investigations;
 - (iii) archaeological analysis of survey data, and timetable for reporting, which is to be submitted to the MMO within four months of any survey being completed;
 - (iv) delivery of any mitigation including, where necessary, identification and modification of archaeological exclusion zones;
 - (v) monitoring of archaeological exclusion zones during and post construction;
 - (vi) a requirement for the undertaker to ensure that a copy of any agreed archaeological report is deposited with the Archaeological Data Service, by submitting an OASIS ('Online Access to the Index of archaeological investigations') form with a digital copy of the report within six months of completion of construction of the authorised project, and to notify the MMO and Historic England that the OASIS form has been submitted to the Archaeological Data Service within two weeks of submission;
 - (vii) a reporting and recording protocol, including reporting of any wreck or wreck material during construction, operation and decommissioning of the authorised project; and
 - (viii) a timetable for all further site investigations, which must allow sufficient opportunity to establish a full understanding of the historic environment within the offshore Order limits and the approval of any necessary mitigation required as a result of the further site investigations prior to commencement of licensed activities;
- (f) an offshore operations and maintenance plan (in accordance with the outline offshore operations and maintenance plan), to be submitted to the MMO at least six months prior to commencement of operation of the licensed activities and to provide for review and resubmission every three years during the operational phase;

- (g) an aids to navigation management plan to be agreed in writing by the MMO following consultation with Trinity House specifying how the undertaker will ensure compliance with condition 8 from the commencement of construction of the authorised project to the completion of decommissioning;
- (h) in the event that driven or part-driven pile foundations are proposed to be used, a marine mammal mitigation protocol (in accordance with the draft marine mammal mitigation protocol), the intention of which is to prevent injury to marine mammals, following current best practice as advised by the relevant statutory nature conservation bodies, to be submitted to the MMO at least six months prior to commencement of licensed activities;
- (i) a mitigation scheme for any benthic habitats of conservation, ecological and/or economic importance constituting Annex I reef habitats identified by the survey referred to in condition 18(4)(a) and in accordance with the offshore in principle monitoring plan;
- (j) an ornithological monitoring plan setting out the circumstances in which ornithological monitoring will be required and the monitoring to be carried out in such circumstances to be submitted to the MMO at least six months prior to commencement of licensed activities; and
- (k) a navigation management plan to manage crew transfer vessels (including daughter craft) during the construction and operation of the authorised project.

(2) Pre-commencement surveys and archaeological investigations and pre-commencement material operations which involve intrusive seabed works must only take place in accordance with a specific outline written scheme of investigation (which must accord with the details set out in the outline written scheme of investigation (offshore)) which has been submitted to and approved by the MMO.

Site Integrity Plan

14.—(1) No piling activities can take place until a Site Integrity Plan (“SIP”), which accords with the principles set out in the in principle Site Integrity Plan for the Southern North Sea Special Area of Conservation, has been submitted to, and approved in writing, by the MMO in consultation with the relevant statutory nature conservation body.

(2) The SIP submitted for approval must contain a description of the conservation objectives for the Southern North Sea Special Area of Conservation (“SNS SAC”) as well as any relevant management measures and it must set out the key statutory nature conservation body advice on activities within the SNS SAC relating to piling as set out within the JNCC Guidance and how this has been considered in the context of the authorised project.

(3) The SIP must be submitted in writing to the MMO no later than six months prior to the commencement of piling activities.

(4) In approving the SIP the MMO must be satisfied that the authorised project at the preconstruction stage, in-combination with other plans and projects, is in line with the JNCC Guidance.

(5) The approved SIP may be amended with the prior written approval of the MMO, in consultation with the relevant statutory nature conservation body, where the MMO remains satisfied that the authorised project, in-combination with other plans or projects at the pre-construction stage, is in line with the JNCC Guidance.

Approval of programmes, statements etc

15.—(1) Each programme, statement, plan, protocol or scheme required to be approved under condition 13 must be submitted in writing for approval at least four months prior to the intended commencement of licensed activities, except where otherwise stated or unless otherwise agreed in writing by the MMO.

(2) The MMO must determine an application for approval made under conditions 13 and 14 within a period of four months commencing on the date the application is received by the MMO, unless otherwise agreed in writing with the undertaker.

(3) The licensed activities must be carried out in accordance with the plans, protocols, statements, schemes and details approved under conditions 13 and 14, unless otherwise agreed in writing by the MMO.

Offshore safety management

16. No part of the authorised project may commence until the MMO, in consultation with the MCA, has confirmed in writing that the undertaker has taken into account and, so far as is applicable to that stage of the project, adequately addressed all MCA recommendations as appropriate to the authorised project contained within MGN654 “Offshore Renewable Energy Installations (OREIs) – Guidance on UK Navigational Practice, Safety and Emergency Response Issues” (or any equivalent guidance that replaces or supersedes it) and its annexes.

Reporting of engaged agents, contractors and vessels

17.—(1) The undertaker must provide the following information in writing to the MMO—

- (a) the name, function, company number (if applicable), registered or head office address (as appropriate) of any agent or contractor appointed to engage in the licensed activities within seven days of appointment; and
- (b) each week during the construction of the authorised project a completed Hydrographic Note H102 listing the vessels currently and to be used in relation to the licensed activities.

(2) The undertaker must notify the MMO in writing of any vessel being used to carry on any licensed activity listed in this marine licence on behalf of the undertaker. 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.

(3) Any changes to the supplied details must be notified to the MMO in writing at least 24 hours before the agent, contractor or vessel engages in the licensed activities.

Pre-construction monitoring and surveys

18.—(1) The undertaker must, in discharging condition 13(1)(b), submit a monitoring plan or plans in accordance with the offshore in principle monitoring plan for written approval by the MMO in consultation with the relevant statutory nature conservation body, which must contain details of proposed monitoring and surveys, including methodologies and timings, and a proposed format and content for a pre-construction baseline report.

(2) The survey proposals submitted under sub-paragraph (1) must be in general accordance with the principles set out in the offshore in principle monitoring plan and must specify each survey’s objectives and explain how it will assist in either informing a useful and valid comparison with the post-construction position or will enable the validation or otherwise of key predictions in the environmental statement.

(3) The baseline report proposals submitted under sub-paragraph (1) must ensure that the outcome of the agreed surveys, together with existing data and reports, are drawn together to present a valid statement of the pre-construction position, with any limitations, and must make clear what post-construction comparison is intended and the justification for this being required.

(4) The pre-construction surveys referred to in sub-paragraph (1) must, unless otherwise agreed with the MMO, have due regard to, but not be limited to, the need to undertake—

- (a) an appropriate survey to determine the location, extent and composition of any benthic habitats of conservation, ecological and/or economic importance constituting Annex 1 reef habitats in the parts of the Order limits in which it is proposed to carry out construction works;
- (b) a swath-bathymetry survey to IHO Order 1a standard that meets the requirements of MGN654 and its annexes, and side scan sonar, of the area(s) within the Order limits in which it is proposed to carry out construction works;

- (c) undertake any ornithological monitoring required by the ornithological monitoring plan submitted in accordance with condition 13(1)(j); and
- (d) undertake or contribute to any marine mammal monitoring referred to in the marine mammal mitigation protocol submitted in accordance with condition 13(1)(h).

(5) The undertaker must carry out the surveys specified within the monitoring plan or plans in accordance with that plan or plans, unless otherwise agreed in writing by the MMO in consultation with the relevant statutory nature conservation body.

Construction monitoring and surveys

19.—(1) The undertaker must, in discharging condition 13(1)(b), submit details (which accord with the offshore in principle monitoring plan) for approval in writing by the MMO in consultation with the relevant statutory nature conservation bodies of any proposed monitoring and surveys, including methodologies and timings, to be carried out during the construction of the authorised project. The survey proposals must specify each survey's objectives.

(2) In the event that driven or part-driven pile foundations are proposed, such monitoring must include measurements of noise generated by the installation of the first four piled foundations of each piled foundation type to be installed unless the MMO otherwise agrees in writing.

(3) The undertaker must carry out the surveys approved under sub-paragraph (1), including any further noise monitoring required in writing by the MMO, and provide the agreed reports in the agreed format in accordance with the agreed timetable, unless otherwise agreed in writing with the MMO in consultation with the relevant statutory nature conservation bodies.

(4) The results of the initial noise measurements monitored in accordance with sub-paragraph (2) must be provided to the MMO within six weeks of the installation of the first four piled foundations. The assessment of this report by the MMO will determine whether any further noise monitoring is required. If, in the reasonable opinion of the MMO in consultation with the relevant statutory nature conservation body, the assessment shows significantly different impacts to those assessed in the environmental statement or failures in mitigation, all piling activity must cease until an update to the marine mammal mitigation protocol and further monitoring requirements have been agreed.

(5) The undertaker must carry out the surveys specified in the construction monitoring plan in accordance with that plan, including any further noise monitoring required in writing by the MMO under sub-paragraph (4), unless otherwise agreed in writing by the MMO in consultation with the relevant statutory nature conservation body.

(6) Construction monitoring must include vessel traffic monitoring in accordance with the outline marine traffic monitoring plan, including the provision of reports on the results of that monitoring at the end of each year of the construction period to the MMO, MCA and Trinity House.

(7) In the event that piled foundations are proposed to be used, the details submitted in accordance with the marine mammal mitigation protocol must include proposals for monitoring marine mammals.

Post-construction monitoring and surveys

20.—(1) The undertaker must, in discharging condition 13(1)(b), submit details (which accord with the offshore in principle monitoring plan) for approval in writing by the MMO in consultation with relevant statutory nature conservation bodies of proposed post-construction monitoring and surveys, including methodologies and timings, and a proposed format, content and timings for providing reports on the results.

(2) The survey proposals must specify each survey's objectives and explain how it will assist in either informing a useful and valid comparison with the pre-construction position and/or will enable the validation or otherwise of key predictions in the environmental statement.

(3) The post-construction surveys referred to in sub-paragraph (1) must, unless otherwise agreed in writing with the MMO, have due regard to, but not be limited to, the need to—

- (a) undertake an appropriate survey to determine any change in the location, extent and composition of any benthic habitats of conservation, ecological and/or economic

importance constituting Annex 1 reef habitats identified in the pre-construction survey in the parts of the Order limits in which construction works were carried out. The survey design must be informed by the results of the pre-construction benthic survey;

- (b) undertake, within 12 months of completion of the licensed activities, a full sea floor coverage swath-bathymetry survey that meets the requirements of MGN654 and its annexes, and side scan sonar, of the area(s) within the Order limits in which construction works were carried out to assess any changes in bedform topography and such further monitoring or assessment as may be agreed to ensure that cables (including fibre optic cables) have been buried or protected;
- (c) undertake any ornithological monitoring required by the ornithological monitoring plan submitted in accordance with condition 13(1)(j);
- (d) undertake post-construction traffic monitoring in accordance with the outline marine traffic monitoring plan, including the provision of reports on the results of that monitoring to the MMO, MCA and Trinity House; and
- (e) undertake or contribute to any marine mammal monitoring referred to in the marine mammal mitigation protocol submitted in accordance with condition 13(1)(h).

(4) The undertaker must carry out the surveys agreed under sub-paragraph (1) and provide the agreed reports to the MMO in the agreed format in accordance with the agreed timetable, unless otherwise agreed in writing with the MMO in consultation with the relevant statutory nature conservation bodies.

(5) Following installation of cables, the cable monitoring plan required under condition 13(1)(c) must be updated with the results of the post installation surveys. The plan must be implemented until the authorised project is decommissioned and reviewed as specified within the plan, following cable burial surveys, or as instructed by the MMO.

(6) In the event that the reports provided to the MMO under sub-paragraph (4) identify a need for additional monitoring, the requirement for any additional monitoring will be agreed with the MMO in writing and implemented as agreed.

(7) In the event that the reports provided to the MMO under sub-paragraph (4) identify impacts which are unanticipated and or beyond those predicted within the Environmental Statement and Habitats Regulations Assessment an adaptive management plan to reduce effects to within what was predicted with the Environmental Statement and Habitats Regulations Assessment, unless otherwise agreed in writing by the MMO, must be submitted alongside the monitoring reports submitted under sub-paragraph (4). This plan must be agreed with the MMO in consultation with the relevant statutory nature conservation bodies to reduce effects to an agreed suitable level for this project. Any such agreed and approved adaptive management or mitigation should be implemented and monitored in full to a timetable first agreed in writing with the MMO. In the event that this adaptive management or mitigation requires a separate consent, the undertaker shall apply for such consent. Where a separate consent is required to undertake the agreed adaptive management or mitigation, the undertaker shall only be required to undertake the adaptive management or mitigation once the consent is granted.

Reporting of scour and cable protection

21.—(1) Not more than four months following completion of the construction of the authorised project, the undertaker must provide the MMO and the relevant statutory nature conservation bodies with a report setting out details of the cable protection and scour protection used for the authorised project.

(2) The report must include the following information—

- (a) the location of cable protection and scour protection;
- (b) the volume of cable protection and scour protection; and
- (c) any other information relating to the cable protection and scour protection as agreed between the MMO and the undertaker.

Completion of construction

22.—(1) The undertaker must submit a close out report to the MMO, the MCA, Trinity House, UKHO and the relevant statutory nature conservation body within three months of the date of completion of construction. The close out report must confirm the date of completion of construction and must include the following details—

- (a) the final number of installed turbine generators;
- (b) the installed wind turbine generator parameters;
- (c) as built plans;
- (d) latitude and longitude coordinates of the centre point of the location for each wind turbine generator and offshore platform, substation and booster station, provided as Geographical Information System data referenced to WGS84 datum; and
- (e) latitude and longitude coordinates of the in-field cables, provided as Geographical Information System data referenced to WGS84 datum.

(2) Following completion of construction, no further construction activities can be undertaken under this marine licence.

Sediment Sampling

23.—(1) The undertaker must submit a sample plan request in writing to the MMO for written approval of a sample plan.

(2) The sample plan request must be made—

- (a) for capital dredging, at least six months prior to the commencement of any capital dredging; or
- (b) for maintenance dredging, at least six months prior to the end of every third year from the date of the previous sediment sample analysis.

(3) The sample plan request must include details of—

- (a) the volume of material to be dredged;
- (b) the location of the area to be dredged;
- (c) details of the material type proposed for dredging;
- (d) the type and dredging methodology (including whether it is a capital or maintenance dredge, depth of material to be dredged and proposed programme for the dredging activities); and
- (e) the location and depth of any supporting samples.

(4) Unless otherwise agreed by the MMO, the undertaker must undertake the sampling in accordance with the approved sample plan.

Collaboration

24.—(1) Prior to submission of plans and documentation required to be submitted to the MMO for approval in accordance with conditions 13 and 14, the undertaker must provide a copy of the relevant plans and documentation to SEL to enable SEL to provide any comments on the plans and documentation to the undertaker.

(2) The plans and documentation submitted to the MMO for approval in accordance with conditions 13 and 14 must be accompanied by any comments received by the undertaker from SEL in accordance with sub-paragraph (1) or a statement from the undertaker confirming that no such comments were received.

Obstacle free zone for navigational safety

25. No infrastructure of any type included within the offshore works, including wind turbine generators and offshore substation platforms, shall be installed within the area defined by the

coordinates as specified below and no part of any wind turbine generator, including its blades, may overfly into the area.

<i>Point ID of the area</i>	<i>Latitude (D°M.MM)</i>	<i>Longitude (D°M.MM)</i>
A (NW corner)	53°21.1541' N	1°10.1853' E
B (SW corner)	53°19.0449' N	1°12.3327' E
C (SE corner)	53°19.5696' N	1°13.6102' E
D (NE corner)	53°21.1558' N	1°11.8346' E

SCHEDULE 12

Article 30

Marine Licence 3: Sheringham Shoal Extension Project Offshore Transmission – Work Nos. 3A to 7A or 3C to 7C

PART 1

Licensed marine activities

Interpretation

1.—(1) In this marine licence—

“the 2004 Act” means the Energy Act 2004;

“the 2008 Act” means the Planning Act 2008;

“the 2009 Act” means the Marine and Coastal Access Act 2009;

“the 2017 Regulations” means the Conservation of Offshore Marine Habitats and Species Regulations 2017;

“Annex 1 reef” means a reef of a type listed in Annex 1 to Council Directive 92/43/EEC on the conservation of natural habitats and of wild fauna and flora;

“authorised deposits” means the substances and articles specified in paragraph 4 of Part 1 of this marine licence;

“authorised project” means Work Nos. 3A to 7A (in the event of scenario 1, scenario 2 or scenario 3) or 3C to 5C, 6A and 7C (in the event of scenario 4) and the further associated development described in paragraph 3 of Part 1 of this marine licence or any part of those works or development;

“buoy” means any floating device used for navigational purposes or measurement purposes including LiDAR buoys, wave buoys and guard buoys;

“cable” includes cables for the transmission of electricity and fibre-optic cables;

“cable crossing” means the crossing of existing subsea cables and pipelines by the array, inter-array or export cables authorised by the Order and forming part of the authorised project together with physical protection measures including cable protection;

“cable protection” means measures to protect cables forming part of the authorised project from physical damage and exposure due to loss of seabed sediment including, but not limited to, rock placement, mattresses with or without frond devices, protective aprons or coverings, bagged solutions filled with sand, rock, grout or other materials and protective shells;

“commence” means the first carrying out of any licensed marine activities authorised by this marine licence, save for pre-construction monitoring surveys approved under this marine licence, and “commenced” and “commencement” must be construed accordingly;

“commercial operation” means in relation to any part of the authorised project, the exporting, transmission or conversion, on a commercial basis, of electricity;

“Cromer Shoal Chalk Beds MCZ” means the Marine Conservation Zone designated by the Secretary of State under the Cromer Shoal Chalk Beds Marine Conservation Zone Designation Order 2016;

“Defence Infrastructure Organisation Safeguarding” means Ministry of Defence Safeguarding, Defence Infrastructure Organisation, St George’s House, DIO Head Office, DMS Whittington, Lichfield, Staffordshire, WS14 9PY and any successor body to its functions;

“DEL” means Dudgeon Extension Limited, company number 12148301, whose registered office is at 1 Kingdom Street, London W2 6BD;

“DEP North” means the array extension area located to the north of DOW;

“DEP South” means the array extension area located to the south of DOW;

“DOW” means the Dudgeon Offshore Wind Farm;

“draft marine mammal mitigation protocol” means the document certified as the draft marine mammal mitigation protocol by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order;

“Dudgeon Extension Project” means the Dudgeon Extension Project offshore works and the Dudgeon Extension Project onshore works;

“Dudgeon Extension Project offshore works” means—

- (a) in the event of scenario 1, scenario 2 or scenario 3, Work Nos. 1B to 7B and any other authorised development associated with those works; or
- (b) in the event of scenario 4, Work Nos. 1B, 2B, the integrated offshore works and any other authorised development associated with those works;

“Dudgeon Extension Project onshore works” means—

- (a) in the event of scenario 1 or scenario 2, Work Nos. 8B to 22B and any other authorised development associated with those works; or
- (b) in the event of scenario 3, Work Nos. 8B to 14B, the scenario 3 integrated onshore works, Work Nos. 18B to 22B, and any other authorised development associated with those works;
- (c) in the event of scenario 4, Work Nos. 10B, 11B, 13B, 14B, the scenario 4 integrated onshore works, Work Nos. 18B to 22B, and any other authorised development associated with those works;

“environmental statement” means the document certified as the environmental statement by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order;

“gravity base structure foundation” means a structure principally of steel, concrete, or steel and concrete which rests on the seabed either due to its own weight with or without added ballast, skirts or other additional fixings, and associated equipment including scour protection, J-tubes, corrosion protection systems, access platforms and equipment and separate topside connection structures or integrated transition pieces;

“HAT” means highest astronomical tide;

“HDD” or “horizontal directional drilling” refers to a trenchless technique for installing cables and cable ducts involving drilling in an arc between two points;

“HVAC” means high voltage alternating current;

“in-field cable” means a subsea cable linking two or more offshore structures;

“in principle Site Integrity Plan for the Southern North Sea Special Area of Conservation” means the document certified as the in principle Site Integrity Plan for the Southern North Sea Special Area of Conservation by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order;

“integrated offshore substation platform” means a single offshore substation platform to be constructed and operated for the benefit of both SEL and DEL;

“integrated offshore works” means Work Nos. 3C, 4C, 5C, 6C and 7C;

“interlink cable” means a subsea cable linking two offshore areas;

“intrusive activities” means activities including anchoring of vessels, jacking up of vessels, temporary deposits and temporary wet storage areas;

“jacket foundation” means a lattice type structure constructed of steel, which may include scour protection and additional equipment such as J-tubes, corrosion protection systems and access platforms;

“JNCC Guidance” means the statutory nature conservation body ‘Guidance for assessing the significance of noise disturbance against Conservation Objectives of harbour porpoise SACs’

Joint Nature Conservation Committee Report No.654, May 2020 published in June 2020 as amended, updated or superseded from time to time;

“joint bay” means an excavation located at regular intervals along the cable route consisting of a concrete flat base slab constructed beneath the ground to facilitate the jointing together of the cables;

“LAT” means lowest astronomical tide;

“land plans” means the plans certified as the land plans by the Secretary of State under article 37 of the Order;

“layout commitments” means the layout commitments contained within the navigation risk assessment at appendix 13.1 of the environmental statement;

“licensed activities” means the activities specified in Part 1 of this licence;

“maintain” includes inspect, upkeep, repair, adjust and alter the authorised project; in relation to any of the ancillary works, any cable, any component part of any wind turbine generator (including a component part of its foundation or transition piece), any component part of any offshore substation platform (including a component part of its foundation), further includes remove, reconstruct and replace (including the replenishment of cable and scour protection); and in all cases to the extent assessed in the environmental statement; and “maintenance” must be construed accordingly;

“Marine Management Organisation” means the body created under the 2009 Act which is responsible for the regulation of this marine licence or any successor of that function and “MMO” shall be construed accordingly;

“MCA” means the Maritime and Coastguard Agency, the executive agency of the Department for Transport;

“MCMS” means the Marine Case Management System web portal provided and operated by the MMO;

“MHWS” or “mean high water springs” means the highest level that spring tides reach on average over a period of time;

“MLWS” or “mean low water springs” means the lowest level that spring tides reach on average over a period of time;

“monopile foundation” means a steel pile driven or drilled into the seabed and associated equipment including scour protection, J-tubes, corrosion protection systems and access platforms and equipment;

“offshore in principle monitoring plan” means the document certified as the offshore in principle monitoring plan by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order;

“offshore order limits and grid coordinates plan” means the plans certified as the offshore order limits and grid coordinates plan by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order;

“offshore substation platform” means a structure above LAT and attached to the seabed by means of a foundation, with one or more decks and open with modular equipment or fully clad, containing—

- (a) electrical equipment required to switch, transform, convert electricity generated at the wind turbine generators to a higher voltage and provide reactive power compensation, including high voltage power transformers, high voltage switchgear and busbars, substation auxiliary systems and low voltage distribution, instrumentation, metering equipment and control systems, standby generators, shunt reactors, auxiliary and uninterruptible power supply systems;
- (b) accommodation, storage, workshop auxiliary equipment and facilities for operating, maintaining and controlling the substation or wind turbine generators, including navigation, aviation and safety marking and lighting, systems for vessel access and retrieval, cranes, potable water supply, black water separation, stores, fuels and spares, communications systems and control hub facilities;

“offshore works” means—

- (a) in the event of scenario 1, scenario 2 or scenario 3, Work Nos. 1A to 7A, 1B to 7B and any other authorised development associated with those works;
- (b) in the event of scenario 4, Work Nos. 1A, 1B, 2A, 2B, the integrated offshore works, and any other authorised development associated with those works;

“onshore works” means—

- (a) in the event of scenario 1 or scenario 2, Work Nos. 8A to 22A, Work Nos. 8B to 22B and any other authorised development associated with those works; or
- (b) in the event of scenario 3, Work Nos. 8A to 14A, 8B to 14B, the scenario 3 integrated onshore works, 18A to 22A, 18B to 22B and any other authorised development associated with those works; or
- (c) in the event of scenario 4, Work Nos. 10A, 10B, 11A, 11B, 13A, 13B, 14A, 14B, 18A to 22A and 18B to 22B, the scenario 4 integrated onshore works and any other authorised development associated with those works;

“Order” means The Sheringham Shoal and Dudgeon Extensions Offshore Wind Farm Order 2024;

“Order land” means the land shown on the land plans which is within the limits of land to be acquired or used and described in the book of reference;

“Order limits” means the limits shown on the offshore order limits and grid coordinates plans within which the authorised project may be carried out and the grid coordinates for Work Nos. 3A, 4A, 5A and 7A are set out in paragraph 5 of Part 1 of this marine licence and the grid coordinates for Work Nos. 3C, 4C, 5C and 7C are set out in paragraph 6 of Part 1 of this marine licence;

“outline Cromer Shoal Chalk Beds Marine Conservation Zone cable specification, installation and monitoring plan” means the document certified as the cable specification, installation and monitoring plan by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order;

“outline fisheries liaison and co-existence plan” means the document certified as the outline fisheries liaison and co-existence plan by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order;

“outline marine traffic monitoring plan” means the document certified as the outline marine traffic monitoring plan by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order;

“outline offshore operations and maintenance plan” means the document certified as the outline offshore operations and maintenance plan by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order;

“outline project environmental management plan” means the document certified as the outline project environmental management plan by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order;

“outline written scheme of investigation (offshore)” means the document certified as the outline written scheme of investigation (offshore) by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order;

“scour protection” means measures to prevent loss of seabed sediment around any structure placed in or on the seabed including by the use of bagged solutions, filled with grout or other materials, protective aprons, mattresses with or without frond devices, flow energy dissipation devices and rock and gravel placement;

“SEL” means Scira Extension Limited, company number 12239260, whose registered office is at 1 Kingdom Street, London W2 6BD;

“scenario 1” means each generating station will be constructed in any one of the following ways—

- (a) the construction of the Sheringham Shoal Extension Project only where the Dudgeon Extension Project does not proceed to construction;
- (b) the construction of the Dudgeon Extension Project only where the Sheringham Shoal Extension Project does not proceed to construction;
- (c) sequential construction where the Sheringham Shoal Extension Project is constructed first then the Dudgeon Extension Project is constructed second or vice versa; or
- (d) concurrent construction of the Sheringham Shoal Extension Project and the Dudgeon Extension Project;

“scenario 2” means a sequential construction scenario in which either the Sheringham Shoal Extension Project is constructed first and SEL installs the ducts for the Dudgeon Extension Project or the Dudgeon Extension Project is constructed first and DEL installs the ducts for the Sheringham Shoal Extension Project;

“scenario 3” means—

- (a) sequential or concurrent construction of Work Nos. 1A to 14A, 18A to 22A, 1B to 14B, 18B to 22B; and
- (b) construction of the scenario 3 integrated onshore works;

“scenario 3 integrated onshore works” means Work Nos. 15C to 17C;

“scenario 4” means—

- (a) sequential or concurrent construction of Work Nos. 1A, 1B, 2A, 2B, 10A, 10B, 11A, 11B, 13A, 13B, 14A, 14B, 18A to 22A, 18B to 22B; and
- (b) construction of the integrated offshore works and the scenario 4 integrated onshore works;

“scenario 4 integrated onshore works” means Work Nos. 8C, 9C, 12C, 15C, 16C and 17C;

“Sheringham Shoal Extension Project” means the Sheringham Shoal Extension Project onshore works and the Sheringham Shoal Extension Project offshore works;

“Sheringham Shoal Extension Project offshore works” means—

- (a) in the event of scenario 1, scenario 2 or scenario 3, Work Nos. 1A to 7A and any authorised development associated with those works; or
- (b) in the event of scenario 4, Work Nos. 1A, 2A, the integrated offshore works and any other authorised development associated with those works;

“Sheringham Shoal Extension Project onshore works” means—

- (a) in the event of scenario 1 or scenario 2, Work Nos. 8A to 22A and any other authorised development associated with those works; or
- (b) in the event of scenario 3, Work Nos. 8A to 14A, the scenario 3 integrated onshore works, 18A to 22A and any other authorised development associated with those works; or
- (c) in the event of scenario 4, Work Nos. 10A, 11A, 13A, 14A, the scenario 4 integrated onshore works, 18A to 22A and any other authorised development associated with any of those works;

“statutory historic body” means Historic England or its successor in function;

“statutory nature conservation body” means an organisation charged by the government with advising on nature conservation matters;

“suction bucket” means a steel cylindrical structure attached to the legs of a jacket or monopile foundation which partially or fully penetrates the seabed and remains in place using its own weight and hydrostatic pressure differential;

“Trinity House” means the Corporation of Trinity House of Deptford Strond;

“UKHO” means the United Kingdom Hydrographic Office of Admiralty Way, Taunton, Somerset, TA1 2DN;

“undertaker” means Scira Extension Limited, company number 12239260, whose registered office is at 1 Kingdom Street, London W2 6BD;

“VHF” means very high frequency;

“vessel” means every description of vessel, however propelled or moved, and includes a non-displacement craft, a personal watercraft, a seaplane on the surface of the water, a hydrofoil vessel, a hovercraft or any other amphibious vehicle and any other thing constructed or adapted for movement through, in, on or over water and which is at the time in, on or over water;

“wind turbine generator” means a structure comprising a tower, a rotor with three blades connected at the hub, a nacelle and ancillary electrical and other equipment which may include J-tubes, transition piece, access and rest platforms, access ladders, boat access systems, corrosion protection systems, fenders and maintenance equipment, helicopter landing facilities and other associated equipment, fixed to a foundation;

“works plans” means the works plans (offshore) and the works plans (onshore);

“works plans (offshore)” means the plans certified as the works plans (offshore) by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order; and

“works plans (onshore)” means the plans certified as the works plans (onshore) by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order.

(2) In this marine licence, a reference to any statute, order, regulation or similar instrument is a reference to a statute, order, regulation or instrument as amended by any subsequent statute, order, regulation or instrument or as contained in any subsequent re-enactment.

(3) In this marine licence, unless otherwise indicated—

(a) all times are Greenwich Mean Time (“GMT”);

(b) all coordinates are latitude and longitude degrees and minutes to two decimal places.

(4) Unless otherwise stated or agreed with the MMO, all submissions, notifications and communications must be sent by the undertaker to the MMO using MCMS. Except where otherwise notified in writing by the relevant organisation, the addresses for correspondence for the purposes of this marine licence are—

(a) Historic England Brooklands

24 Brooklands Avenue

Cambridge

CB2 8BU

Tel: 01223 582749

Email: eastofengland@historicengland.org.uk

(b) Marine Management Organisation

Marine Licensing Team

Lancaster House

Hampshire Court

Newcastle upon Tyne

NE4 7YH

Email: marine.consents@marinemanagement.org.uk

Tel: 0300 123 1032

(c) Marine Management Organisation (local office)

Lowestoft Office

Pakefield Road

Lowestoft

Suffolk

NR33 0HT

Email: lowestoft@marinemanagement.org.uk

Tel: 02080266094

- (d) Marine Management Organisation
Marine Pollution Response Team
Tel. (during office hours): 0300 200 2024,
Tel. (outside office hours): 07770 977 825 or 0845 051 8486
Email: dispersants@marinemanagement.org.uk
- (e) Maritime and Coastguard Agency
UK Technical Services Navigation
Spring Place
105 Commercial Road
Southampton
SO15 1EG
Tel: 020 3817 2554
- (f) Natural England
Foss House
Kings Pool
1-2 Peasholme Green
York
YO1 7PX
Tel: 0300 060 4911
- (g) Trinity House
Tower Hill
London
EC3N 4DH
Tel: 020 7481 6900
- (h) United Kingdom Hydrographic Office
Admiralty Way
Taunton
Somerset
TA1 2DN
Tel: 01823 337 900

Details of licensed marine activities

2. Subject to the conditions this marine licence authorises the undertaker (and any agent or contractor acting on their behalf) to carry out the following licensable marine activities under section 66(1) (licensable marine activities) of the 2009 Act—

- (a) the deposit at sea of the substances and objects specified in paragraph 4 below;
- (b) the construction of works in or over the sea or on or under the seabed;
- (c) dredging for the purposes of seabed preparation for foundation works or cable works;
- (d) the removal of sediment samples for the purposes of informing environmental monitoring under this marine licence during pre-construction, construction and operation;
- (e) site clearance and preparation works including debris, boulder clearance and the removal of out of service cables and static fishing equipment; and
- (f) the disposal of up to 145,325 cubic metres of inert material of natural origin within the Order limits produced during construction drilling or seabed preparation for foundation

works and cable works and boulder clearance works at disposal site references to be provided to the MMO within the Order limits seaward of MHWS.

3. Such activities are authorised in relation to the construction, maintenance and operation of—

Work No. 3A— in the event of scenario 1, scenario 2 or scenario 3, an offshore substation platform fixed to the seabed by either piled jacket, or suction bucket jacket foundations within the area shown on the works plans; or

Work No. 3C— in the event of scenario 4, an integrated offshore substation platform fixed to the seabed by either piled jacket or suction bucket jacket foundations within the area shown on the works plans;

Work No. 4A— in the event of scenario 1, scenario 2 or scenario 3, HVAC subsea export cables between Work No. 3A and Work No. 5A along routes within the area shown on the works plans including cable protection and one or more cable crossings; or

Work No. 4C— in the event of scenario 4—

- (a) interlink cables between DEP North and Work No. 3C and DEP South and Work No. 3C; and
- (b) HVAC subsea export cables between Work No. 3C and Work No. 5C along routes within the area shown on the works plans including cable protection and one or more cable crossings;

Work No. 5A— in the event of scenario 1, scenario 2 or scenario 3, HVAC subsea export cables between Work No. 4A and Work No. 7A along routes within the area shown on the works plans including cable protection and one or more cable crossings; or

Work No. 5C— in the event of scenario 4, HVAC subsea export cables between Work No. 4C and Work No. 7C along routes within the area shown on the works plans including cable protection and one or more cable crossings;

Work No. 6A— in the event of scenario 1, scenario 2 or scenario 3, a temporary work area for vessels to carry out intrusive activities and non-intrusive activities alongside Work Nos. 1A, 2A, 3A, 4A and 5A; or

Work No. 6C— in the event of scenario 4, a temporary work area for vessels to carry out intrusive activities and non-intrusive activities alongside Work Nos. 1A, 1B, 2A, 2B, 3C, 4C and 5C;

Work No. 7A— in the event of scenario 1, scenario 2 or scenario 3, landfall connection works between Work No. 5A and Work No. 8A comprising of a cable circuit and ducts seaward of MHWS within the area shown on the works plans; or

Work No. 7C— in the event of scenario 4, landfall connection works between Work No. 5C and Work No. 8C comprising of up to two cable circuits and ducts seaward of MHWS within the area shown on the works plans;

In connection with such Work Nos. 3A to 7A or Work Nos. 3C to 7C and to the extent that they do not otherwise form part of any such work, further associated development within the meaning of section 115(2) (development for which development consent may be granted) of the 2008 Act comprising such other works as may be necessary or expedient for the purposes of or in connection with the relevant part of the authorised project and which fall within the scope of the work assessed by the environmental statement and the provisions of this marine licence including—

- (c) scour protection around the foundations of the offshore structures;
- (d) cable protection measures such as the placement of rock and/or concrete mattresses, with or without frond devices;
- (e) the removal of material from the seabed required for the construction of Work Nos. 3A to 7A or 3C to 7C and the disposal of inert material of natural origin within the Order limits produced during construction drilling, seabed preparation for foundation works, cable

installation preparation such as sandwave clearance, boulder clearance and pre-trenching and excavation of horizontal directional drilling exit pits;

- (f) temporary landing places, moorings or other means of accommodating vessels in the construction or maintenance of the authorised project;
- (g) removal of static fishing equipment;
- (h) beacons, fenders and other navigational warning or ship impact protection works;
- (i) disposal of drill arisings in connection with any foundation drilling up to a total of 425 cubic metres; and
- (j) temporary deposit and removal of monitoring equipment.

4. The substances and objects authorised for deposit at sea are—

- (a) iron, steel, copper and aluminium;
- (b) stone and rock;
- (c) concrete and grout;
- (d) sand and gravel;
- (e) plastic and synthetic;
- (f) material extracted from within the Order limits during construction drilling or seabed preparation for foundation works and cable sandwave preparation works; and
- (g) marine coatings, other chemicals and timber.

5. The grid coordinates for that part of the authorised project comprising Work Nos. 3A, 4A, 5A and 7A are specified below—

<i>Point ID</i>	<i>Latitude (DMS)</i>	<i>Longitude (DMS)</i>
1	52° 57' 35,361" N	1° 10' 20,295" E
2	52° 56' 54,694" N	1° 9' 27,639" E
3	52° 56' 54,694" N	1° 9' 27,604" E
4	52° 56' 54,690" N	1° 9' 27,438" E
5	52° 56' 54,680" N	1° 9' 27,273" E
6	52° 56' 54,664" N	1° 9' 27,109" E
7	52° 56' 54,643" N	1° 9' 26,945" E
8	52° 56' 54,630" N	1° 9' 26,860" E
9	52° 56' 54,631" N	1° 9' 26,827" E
10	52° 56' 54,664" N	1° 9' 25,966" E
11	52° 56' 54,694" N	1° 9' 25,197" E
12	52° 56' 54,708" N	1° 9' 24,908" E
13	52° 56' 54,755" N	1° 9' 24,108" E
14	52° 56' 54,825" N	1° 9' 22,821" E
15	52° 56' 54,902" N	1° 9' 21,380" E
16	52° 56' 54,954" N	1° 9' 20,542" E
17	52° 56' 54,988" N	1° 9' 19,874" E
18	52° 56' 55,005" N	1° 9' 19,463" E
19	52° 56' 55,021" N	1° 9' 19,228" E
20	52° 56' 55,096" N	1° 9' 18,274" E
21	52° 56' 55,133" N	1° 9' 17,756" E
22	52° 56' 55,159" N	1° 9' 17,538" E
23	52° 56' 55,187" N	1° 9' 17,240" E
24	52° 56' 55,258" N	1° 9' 16,558" E
25	52° 56' 55,336" N	1° 9' 15,883" E
26	52° 56' 55,442" N	1° 9' 14,936" E

27	52° 56' 55,566" N	1° 9' 13,609" E
28	52° 56' 55,689" N	1° 9' 12,143" E
29	52° 56' 55,724" N	1° 9' 11,700" E
30	52° 56' 55,761" N	1° 9' 11,231" E
31	52° 56' 55,789" N	1° 9' 10,675" E
32	52° 56' 55,816" N	1° 9' 10,210" E
33	52° 56' 55,838" N	1° 9' 9,767" E
34	52° 56' 55,855" N	1° 9' 9,204" E
35	52° 56' 55,878" N	1° 9' 8,627" E
36	52° 56' 55,882" N	1° 9' 8,037" E
37	52° 56' 55,885" N	1° 9' 7,479" E
38	52° 56' 55,894" N	1° 9' 6,938" E
39	52° 56' 55,906" N	1° 9' 6,520" E
40	52° 56' 55,940" N	1° 9' 5,589" E
41	52° 56' 55,960" N	1° 9' 4,555" E
42	52° 56' 55,985" N	1° 9' 3,908" E
43	52° 56' 56,007" N	1° 9' 3,035" E
44	52° 56' 56,043" N	1° 9' 2,131" E
45	52° 56' 56,081" N	1° 9' 1,281" E
46	52° 56' 56,125" N	1° 9' 0,426" E
47	52° 56' 56,138" N	1° 9' 0,083" E
48	52° 56' 56,144" N	1° 9' 0,019" E
49	52° 56' 56,142" N	1° 8' 59,955" E
50	52° 56' 56,135" N	1° 8' 59,853" E
51	52° 56' 56,120" N	1° 8' 59,728" E
52	52° 56' 56,115" N	1° 8' 59,685" E
53	52° 56' 56,113" N	1° 8' 59,636" E
54	52° 56' 56,116" N	1° 8' 59,535" E
55	52° 56' 56,126" N	1° 8' 59,396" E
56	52° 56' 56,149" N	1° 8' 59,280" E
57	52° 56' 56,156" N	1° 8' 59,130" E
58	52° 56' 56,160" N	1° 8' 59,023" E
59	52° 56' 56,159" N	1° 8' 58,921" E
60	52° 56' 56,153" N	1° 8' 58,797" E
61	52° 56' 56,149" N	1° 8' 58,711" E
62	52° 56' 56,158" N	1° 8' 58,620" E
63	52° 56' 56,166" N	1° 8' 58,567" E
64	52° 56' 56,177" N	1° 8' 58,514" E
65	52° 56' 56,199" N	1° 8' 58,436" E
66	52° 56' 56,210" N	1° 8' 58,388" E
67	52° 56' 56,221" N	1° 8' 58,336" E
68	52° 56' 56,229" N	1° 8' 58,283" E
69	52° 56' 56,234" N	1° 8' 58,224" E
70	52° 56' 56,236" N	1° 8' 58,154" E
71	52° 56' 56,232" N	1° 8' 58,084" E
72	52° 56' 56,213" N	1° 8' 57,949" E
73	52° 56' 56,196" N	1° 8' 57,851" E
74	52° 56' 56,191" N	1° 8' 57,792" E
75	52° 56' 56,190" N	1° 8' 57,727" E
76	52° 56' 56,192" N	1° 8' 57,652" E

77	52° 56' 56,200" N	1° 8' 57,578" E
78	52° 56' 56,212" N	1° 8' 57,482" E
79	52° 56' 56,230" N	1° 8' 57,392" E
80	52° 56' 56,244" N	1° 8' 57,351" E
81	52° 56' 56,255" N	1° 8' 57,303" E
82	52° 56' 56,267" N	1° 8' 57,218" E
83	52° 56' 56,273" N	1° 8' 57,122" E
84	52° 56' 56,271" N	1° 8' 56,950" E
85	52° 56' 56,256" N	1° 8' 56,751" E
86	52° 56' 56,247" N	1° 8' 56,601" E
87	52° 56' 56,242" N	1° 8' 56,536" E
88	52° 56' 56,244" N	1° 8' 56,472" E
89	52° 56' 56,260" N	1° 8' 56,361" E
90	52° 56' 56,274" N	1° 8' 56,303" E
91	52° 56' 56,285" N	1° 8' 56,239" E
92	52° 56' 56,307" N	1° 8' 56,021" E
93	52° 56' 56,320" N	1° 8' 55,647" E
94	52° 56' 56,327" N	1° 8' 55,080" E
95	52° 56' 56,337" N	1° 8' 54,834" E
96	52° 56' 56,357" N	1° 8' 54,434" E
97	52° 56' 56,378" N	1° 8' 53,980" E
98	52° 56' 56,405" N	1° 8' 53,527" E
99	52° 56' 56,442" N	1° 8' 52,977" E
100	52° 56' 56,474" N	1° 8' 52,583" E
101	52° 56' 56,485" N	1° 8' 52,402" E
102	52° 56' 56,493" N	1° 8' 52,215" E
103	52° 56' 56,496" N	1° 8' 52,018" E
104	52° 56' 56,571" N	1° 8' 50,912" E
105	52° 56' 56,607" N	1° 8' 50,422" E
106	52° 56' 56,644" N	1° 8' 49,931" E
107	52° 56' 56,682" N	1° 8' 49,441" E
108	52° 56' 56,719" N	1° 8' 48,951" E
109	52° 56' 56,755" N	1° 8' 48,460" E
110	52° 56' 56,778" N	1° 8' 48,023" E
111	52° 56' 56,793" N	1° 8' 47,584" E
112	52° 56' 56,804" N	1° 8' 47,144" E
113	52° 56' 56,821" N	1° 8' 46,705" E
114	52° 56' 56,849" N	1° 8' 46,269" E
115	52° 56' 57,031" N	1° 8' 44,094" E
116	52° 56' 57,117" N	1° 8' 43,069" E
117	52° 56' 57,183" N	1° 8' 42,274" E
118	52° 56' 57,208" N	1° 8' 42,038" E
119	52° 56' 57,216" N	1° 8' 41,942" E
120	52° 56' 57,222" N	1° 8' 41,846" E
121	52° 56' 57,222" N	1° 8' 41,826" E
122	52° 56' 57,242" N	1° 8' 41,608" E
123	52° 56' 57,243" N	1° 8' 41,601" E
124	52° 56' 57,276" N	1° 8' 41,405" E
125	52° 56' 57,304" N	1° 8' 41,209" E
126	52° 56' 57,335" N	1° 8' 40,949" E

127	52° 56' 57,367" N	1° 8' 40,652" E
128	52° 56' 57,390" N	1° 8' 40,348" E
129	52° 56' 57,409" N	1° 8' 40,076" E
130	52° 56' 57,426" N	1° 8' 39,917" E
131	52° 56' 57,434" N	1° 8' 39,811" E
132	52° 56' 57,442" N	1° 8' 39,576" E
133	52° 56' 57,443" N	1° 8' 39,487" E
134	52° 56' 57,471" N	1° 8' 39,155" E
135	52° 56' 57,517" N	1° 8' 38,578" E
136	52° 56' 57,560" N	1° 8' 37,999" E
137	52° 56' 57,601" N	1° 8' 37,421" E
138	52° 56' 57,628" N	1° 8' 36,995" E
139	52° 56' 57,651" N	1° 8' 36,569" E
140	52° 56' 57,673" N	1° 8' 36,143" E
141	52° 56' 57,696" N	1° 8' 35,716" E
142	52° 56' 57,723" N	1° 8' 35,291" E
143	52° 56' 57,756" N	1° 8' 34,877" E
144	52° 56' 57,791" N	1° 8' 34,520" E
145	52° 56' 57,805" N	1° 8' 34,405" E
146	52° 56' 57,833" N	1° 8' 34,187" E
147	52° 56' 57,854" N	1° 8' 33,996" E
148	52° 56' 57,876" N	1° 8' 33,767" E
149	52° 56' 57,909" N	1° 8' 33,475" E
150	52° 56' 57,937" N	1° 8' 33,262" E
151	52° 56' 57,958" N	1° 8' 33,060" E
152	52° 56' 57,974" N	1° 8' 32,825" E
153	52° 56' 57,988" N	1° 8' 32,547" E
154	52° 56' 57,996" N	1° 8' 32,371 E
155	52° 56' 58,009" N	1° 8' 32,099" E
156	52° 56' 58,026" N	1° 8' 31,698" E
157	52° 56' 58,053" N	1° 8' 31,164" E
158	52° 56' 58,091" N	1° 8' 30,706" E
159	52° 56' 58,128" N	1° 8' 30,178" E
160	52° 56' 58,173" N	1° 8' 29,592" E
161	52° 56' 58,219" N	1° 8' 29,048" E
162	52° 56' 58,278" N	1° 8' 28,431" E
163	52° 56' 58,343" N	1° 8' 27,669" E
164	52° 56' 58,359" N	1° 8' 27,381" E
165	52° 56' 58,372" N	1° 8' 27,216" E
166	52° 56' 58,390" N	1° 8' 26,964" E
167	52° 56' 58,392" N	1° 8' 26,912" E
168	52° 56' 58,403" N	1° 8' 26,797" E
169	52° 56' 58,398" N	1° 8' 26,780" E
170	52° 56' 57,591" N	1° 8' 23,453" E
171	52° 56' 57,607" N	1° 8' 23,312" E
172	52° 56' 57,696" N	1° 8' 22,616" E
173	52° 56' 57,819" N	1° 8' 21,510" E
174	52° 56' 58,021" N	1° 8' 19,543" E
175	52° 56' 58,156" N	1° 8' 18,267" E
176	52° 56' 58,293" N	1° 8' 16,991" E

177	52° 56' 58,371" N	1° 8' 16,290" E
178	52° 56' 58,452" N	1° 8' 15,590" E
179	52° 56' 58,533" N	1° 8' 14,889" E
180	52° 56' 58,611" N	1° 8' 14,188" E
181	52° 56' 58,684" N	1° 8' 13,438" E
182	52° 56' 58,747" N	1° 8' 12,686" E
183	52° 56' 58,808" N	1° 8' 11,957" E
184	52° 56' 58,817" N	1° 8' 11,966" E
185	52° 56' 58,840" N	1° 8' 11,992" E
186	52° 56' 59,726" N	1° 8' 12,960" E
187	52° 57' 0,102" N	1° 8' 13,371" E
188	52° 57' 8,134" N	1° 8' 22,147" E
189	52° 57' 14,357" N	1° 8' 25,824" E
190	52° 57' 22,662" N	1° 8' 28,252" E
191	52° 57' 40,113" N	1° 8' 33,188" E
192	52° 57' 42,426" N	1° 8' 35,383" E
193	52° 57' 52,102" N	1° 8' 56,636" E
194	52° 58' 16,245" N	1° 10' 2,679" E
195	52° 58' 41,839" N	1° 10' 38,668" E
196	52° 59' 7,430" N	1° 11' 14,669" E
197	52° 59' 42,249" N	1° 12' 2,219" E
198	53° 0' 17,064" N	1° 12' 49,789" E
199	53° 0' 35,405" N	1° 13' 4,931" E
200	53° 0' 57,553" N	1° 13' 25,221" E
201	53° 1' 22,451" N	1° 13' 58,051" E
202	53° 1' 27,774" N	1° 14' 5,055" E
203	53° 1' 30,435" N	1° 14' 8,557" E
204	53° 1' 31,101" N	1° 14' 9,432" E
205	53° 1' 31,267" N	1° 14' 9,651" E
206	53° 1' 31,350" N	1° 14' 9,760" E
207	53° 1' 31,433" N	1° 14' 9,870" E
208	53° 1' 31,766" N	1° 14' 10,308" E
209	53° 1' 33,097" N	1° 14' 12,058" E
210	53° 1' 43,742" N	1° 14' 26,066" E
211	53° 1' 54,320" N	1° 14' 36,758" E
212	53° 1' 59,354" N	1° 14' 39,959" E
213	53° 1' 59,983" N	1° 14' 40,359" E
214	53° 2' 0,613" N	1° 14' 40,760" E
215	53° 2' 1,871" N	1° 14' 41,560" E
216	53° 2' 4,388" N	1° 14' 43,161" E
217	53° 2' 14,457" N	1° 14' 49,564" E
218	53° 3' 4,871" N	1° 15' 12,274" E
219	53° 4' 0,089" N	1° 15' 35,690" E
220	53° 4' 23,250" N	1° 15' 46,786" E
221	53° 5' 0,996" N	1° 15' 11,113" E
222	53° 5' 20,705" N	1° 14' 48,183" E
223	53° 5' 33,957" N	1° 13' 54,955" E
224	53° 5' 47,202" N	1° 13' 1,718" E
225	53° 5' 47,266" N	1° 13' 1,677" E
226	53° 5' 47,266" N	1° 13' 1,676" E

227	53° 5' 47,540" N	1° 13' 1,498" E
228	53° 5' 47,545" N	1° 13' 1,495" E
229	53° 5' 50,444" N	1° 12' 59,604" E
230	53° 5' 50,506" N	1° 12' 59,565" E
231	53° 6' 19,018" N	1° 12' 40,975" E
232	53° 6' 19,097" N	1° 12' 40,924" E
233	53° 6' 42,962" N	1° 12' 25,364" E
234	53° 6' 43,080" N	1° 12' 25,287" E
235	53° 7' 12,739" N	1° 12' 5,962" E
236	53° 7' 42,397" N	1° 11' 46,630" E
237	53° 7' 49,968" N	1° 11' 41,694" E
238	53° 8' 12,055" N	1° 11' 27,290" E
239	53° 8' 41,711" N	1° 11' 7,942" E
240	53° 8' 41,717" N	1° 11' 7,938" E
241	53° 8' 49,191" N	1° 11' 3,065" E
242	53° 8' 49,206" N	1° 11' 3,056" E
243	53° 8' 57,559" N	1° 10' 57,610" E
244	53° 8' 57,564" N	1° 10' 57,607" E
245	53° 8' 58,833" N	1° 10' 56,779" E
246	53° 8' 58,859" N	1° 10' 56,762" E
247	53° 9' 10,110" N	1° 10' 9,689" E
248	53° 9' 21,357" N	1° 9' 22,609" E
249	53° 9' 32,598" N	1° 8' 35,522" E
250	53° 9' 43,834" N	1° 7' 48,428" E
251	53° 9' 55,065" N	1° 7' 1,328" E
252	53° 10' 6,290" N	1° 6' 14,221" E
253	53° 10' 17,511" N	1° 5' 27,107" E
254	53° 10' 28,726" N	1° 4' 39,986" E
255	53° 10' 46,425" N	1° 3' 19,628" E
256	53° 11' 4,109" N	1° 1' 59,252" E
257	53° 11' 31,621" N	1° 2' 25,520" E
258	53° 11' 59,131" N	1° 2' 51,798" E
259	53° 12' 26,640" N	1° 3' 18,084" E
260	53° 12' 54,148" N	1° 3' 44,380" E
261	53° 13' 21,654" N	1° 4' 10,686" E
262	53° 13' 49,158" N	1° 4' 37,000" E
263	53° 14' 16,661" N	1° 5' 3,324" E
264	53° 14' 44,162" N	1° 5' 29,657" E
265	53° 14' 10,501" N	1° 6' 22,744" E
266	53° 13' 36,833" N	1° 7' 15,807" E
267	53° 13' 3,158" N	1° 8' 8,847" E
268	53° 12' 29,477" N	1° 9' 1,864" E
269	53° 11' 55,788" N	1° 9' 54,857" E
270	53° 11' 22,093" N	1° 10' 47,828" E
271	53° 10' 48,391" N	1° 11' 40,775" E
272	53° 10' 14,683" N	1° 12' 33,700" E
273	53° 7' 19,882" N	1° 17' 7,608" E
274	53° 7' 12,187" N	1° 18' 5,637" E
275	53° 6' 40,142" N	1° 17' 46,074" E
276	53° 6' 8,096" N	1° 17' 26,519" E

277	53° 5' 53,359" N	1° 17' 17,530" E
278	53° 5' 36,048" N	1° 17' 6,972" E
279	53° 5' 4,000" N	1° 16' 47,433" E
280	53° 5' 3,998" N	1° 16' 47,439" E
281	53° 4' 48,834" N	1° 16' 40,042 E
282	53° 4' 23,756" N	1° 16' 27,812" E
283	53° 3' 39,216" N	1° 16' 5,715" E
284	53° 3' 4,285" N	1° 15' 45,012" E
285	53° 2' 42,819" N	1° 15' 34,383" E
286	53° 2' 18,678" N	1° 15' 22,981" E
287	53° 2' 4,608" N	1° 15' 14,913" E
288	53° 2' 1,090" N	1° 15' 12,896" E
289	53° 2' 0,211" N	1° 15' 12,392" E
290	53° 1' 59,991" N	1° 15' 12,266" E
291	53° 1' 59,771" N	1° 15' 12,140" E
292	53° 1' 59,331" N	1° 15' 11,888" E
293	53° 1' 57,573" N	1° 15' 10,880" E
294	53° 1' 50,538" N	1° 15' 6,846" E
295	53° 1' 36,320" N	1° 15' 7,829" E
296	53° 1' 32,765" N	1° 15' 8,074" E
297	53° 1' 31,876" N	1° 15' 8,136" E
298	53° 1' 31,432" N	1° 15' 8,167" E
299	53° 1' 31,321" N	1° 15' 8,174" E
300	53° 1' 31,210" N	1° 15' 8,182" E
301	53° 1' 30,988" N	1° 15' 8,197" E
302	53° 1' 29,210" N	1° 15' 8,320" E
303	53° 1' 22,101" N	1° 15' 8,812" E
304	53° 1' 9,264" N	1° 14' 55,002" E
305	53° 0' 53,523" N	1° 14' 34,350" E
306	53° 0' 37,631" N	1° 14' 15,360" E
307	53° 0' 19,626" N	1° 13' 59,138" E
308	53° 0' 4,888" N	1° 13' 45,462" E
309	52° 59' 45,135" N	1° 13' 20,396" E
310	52° 59' 8,327" N	1° 12' 31,064" E
311	52° 58' 31,514" N	1° 11' 41,754" E
312	52° 58' 3,439" N	1° 11' 1,017" E

6. The grid coordinates for that part of the authorised project comprising Work Nos. 3C, 4C, 5C, and 7C are specified below—

<i>Point ID</i>	<i>Latitude (DMS)</i>	<i>Longitude (DMS)</i>
1	53° 20' 54,139" N	1° 24' 1,404" E
2	53° 20' 5,326" N	1° 24' 0,033" E
3	53° 19' 36,128" N	1° 24' 8,276" E
4	53° 19' 9,827" N	1° 24' 23,580" E
5	53° 18' 34,113" N	1° 25' 3,960" E
6	53° 18' 17,503" N	1° 25' 24,511" E
7	53° 18' 0,222" N	1° 25' 39,259" E
8	53° 17' 15,148" N	1° 26' 5,612" E
9	53° 17' 35,036" N	1° 25' 24,340" E
10	53° 17' 54,920" N	1° 24' 43,056" E

11	53° 18' 14,801" N	1° 24' 1,762" E
12	53° 18' 34,677" N	1° 23' 20,458" E
13	53° 18' 35,113" N	1° 22' 55,059" E
14	53° 18' 9,353" N	1° 22' 14,077" E
15	53° 18' 55,523" N	1° 20' 33,698" E
16	53° 18' 18,216" N	1° 19' 28,603" E
17	53° 18' 23,044" N	1° 19' 18,170" E
18	53° 16' 40,497" N	1° 19' 9,998" E
19	53° 17' 29,099" N	1° 18' 30,623" E
20	53° 18' 17,849" N	1° 17' 51,100" E
21	53° 18' 52,654" N	1° 17' 33,836" E
22	53° 19' 27,459" N	1° 17' 16,563" E
23	53° 19' 41,748" N	1° 17' 0,577" E
24	53° 18' 56,531" N	1° 16' 15,330" E
25	53° 17' 53,698" N	1° 15' 55,514" E
26	53° 16' 50,863" N	1° 15' 35,713" E
27	53° 15' 48,027" N	1° 15' 15,928" E
28	53° 14' 45,190" N	1° 14' 56,158" E
29	53° 13' 42,353" N	1° 14' 36,404" E
30	53° 12' 39,514" N	1° 14' 16,665" E
31	53° 11' 36,675" N	1° 13' 56,942" E
32	53° 10' 33,834" N	1° 13' 37,234" E
33	53° 9' 56,800" N	1° 14' 32,527" E
34	53° 10' 15,091" N	1° 15' 51,276" E
35	53° 10' 33,368" N	1° 17' 10,043" E
36	53° 10' 51,630" N	1° 18' 28,829" E
37	53° 11' 9,878" N	1° 19' 47,634" E
38	53° 11' 28,112" N	1° 21' 6,458" E
39	53° 11' 46,331" N	1° 22' 25,301" E
40	53° 12' 4,536" N	1° 23' 44,163" E
41	53° 12' 22,727" N	1° 25' 3,043" E
42	53° 12' 35,764" N	1° 25' 45,404" E
43	53° 14' 5,405" N	1° 25' 52,576" E
44	53° 13' 44,764" N	1° 27' 26,148" E
45	53° 13' 21,538" N	1° 28' 1,214" E
46	53° 12' 58,309" N	1° 28' 36,270" E
47	53° 12' 35,077" N	1° 29' 11,315" E
48	53° 12' 11,842" N	1° 29' 46,349" E
49	53° 11' 48,603" N	1° 30' 21,373" E
50	53° 11' 25,362" N	1° 30' 56,387" E
51	53° 11' 2,118" N	1° 31' 31,390" E
52	53° 10' 38,872" N	1° 32' 6,382" E
53	53° 10' 16,470" N	1° 31' 10,439" E
54	53° 9' 54,062" N	1° 30' 14,512" E
55	53° 9' 31,646" N	1° 29' 18,602" E
56	53° 9' 9,223" N	1° 28' 22,708" E
57	53° 9' 18,541" N	1° 27' 23,002" E
58	53° 9' 42,205" N	1° 26' 28,216" E
59	53° 10' 5,861" N	1° 25' 33,413" E
60	53° 12' 11,085" N	1° 25' 43,428" E

61	53° 12' 13,889" N	1° 25' 43,653" E
62	53° 12' 10,720" N	1° 25' 29,896" E
63	53° 11' 51,377" N	1° 24' 6,228" E
64	53° 11' 32,018" N	1° 22' 42,581" E
65	53° 11' 12,643" N	1° 21' 18,956" E
66	53° 10' 53,251" N	1° 19' 55,352" E
67	53° 10' 33,844" N	1° 18' 31,769" E
68	53° 10' 14,420" N	1° 17' 8,207" E
69	53° 9' 54,980" N	1° 15' 44,667" E
70	53° 9' 35,524" N	1° 14' 21,148" E
71	53° 9' 4,437" N	1° 15' 9,684" E
72	53° 8' 33,344" N	1° 15' 58,201" E
73	53° 8' 2,245" N	1° 16' 46,699" E
74	53° 7' 31,141" N	1° 17' 35,177" E
75	53° 7' 12,187" N	1° 18' 5,637" E
76	53° 6' 40,142" N	1° 17' 46,074" E
77	53° 6' 8,096" N	1° 17' 26,519" E
78	53° 5' 53,359" N	1° 17' 17,530" E
79	53° 5' 36,048" N	1° 17' 6,972" E
80	53° 5' 4,000" N	1° 16' 47,433" E
81	53° 5' 3,998" N	1° 16' 47,439" E
82	53° 4' 48,834" N	1° 16' 40,042" E
83	53° 4' 23,756" N	1° 16' 27,812" E
84	53° 3' 39,216" N	1° 16' 5,715" E
85	53° 3' 4,285" N	1° 15' 45,012" E
86	53° 2' 42,819" N	1° 15' 34,383" E
87	53° 2' 18,678" N	1° 15' 22,981" E
88	53° 2' 4,608" N	1° 15' 14,913" E
89	53° 2' 1,090" N	1° 15' 12,896" E
90	53° 2' 0,211" N	1° 15' 12,392" E
91	53° 1' 59,991" N	1° 15' 12,266" E
92	53° 1' 59,771" N	1° 15' 12,140" E
93	53° 1' 59,331" N	1° 15' 11,888" E
94	53° 1' 57,573" N	1° 15' 10,879" E
95	53° 1' 50,538" N	1° 15' 6,846" E
96	53° 1' 36,320" N	1° 15' 7,829" E
97	53° 1' 32,765" N	1° 15' 8,074" E
98	53° 1' 31,876" N	1° 15' 8,136" E
99	53° 1' 31,432" N	1° 15' 8,167" E
100	53° 1' 31,321" N	1° 15' 8,174" E
101	53° 1' 31,210" N	1° 15' 8,182" E
102	53° 1' 30,988" N	1° 15' 8,197" E
103	53° 1' 29,210" N	1° 15' 8,320" E
104	53° 1' 22,101" N	1° 15' 8,812" E
105	53° 1' 9,264" N	1° 14' 55,002" E
106	53° 0' 53,523" N	1° 14' 34,350" E
107	53° 0' 37,631" N	1° 14' 15,360" E
108	53° 0' 19,626" N	1° 13' 59,138" E
109	53° 0' 4,888" N	1° 13' 45,462" E
110	52° 59' 45,135" N	1° 13' 20,396" E

111	52° 59' 8,327" N	1° 12' 31,064" E
112	52° 58' 31,514" N	1° 11' 41,754" E
113	52° 58' 3,439" N	1° 11' 1,017" E
114	52° 57' 35,361" N	1° 10' 20,295" E
115	52° 56' 54,694" N	1° 9' 27,639" E
116	52° 56' 54,694" N	1° 9' 27,604" E
117	52° 56' 54,690" N	1° 9' 27,438" E
118	52° 56' 54,680" N	1° 9' 27,273" E
119	52° 56' 54,664" N	1° 9' 27,109" E
120	52° 56' 54,643" N	1° 9' 26,945" E
121	52° 56' 54,630" N	1° 9' 26,860" E
122	52° 56' 54,631" N	1° 9' 26,827" E
123	52° 56' 54,664" N	1° 9' 25,966" E
124	52° 56' 54,694" N	1° 9' 25,197" E
125	52° 56' 54,708" N	1° 9' 24,908" E
126	52° 56' 54,755" N	1° 9' 24,108" E
127	52° 56' 54,825" N	1° 9' 22,821" E
128	52° 56' 54,902" N	1° 9' 21,380" E
129	52° 56' 54,954" N	1° 9' 20,542" E
130	52° 56' 54,988" N	1° 9' 19,874" E
131	52° 56' 55,005" N	1° 9' 19,463" E
132	52° 56' 55,021" N	1° 9' 19,228" E
133	52° 56' 55,096" N	1° 9' 18,274" E
134	52° 56' 55,133" N	1° 9' 17,756" E
135	52° 56' 55,159" N	1° 9' 17,538" E
136	52° 56' 55,187" N	1° 9' 17,240" E
137	52° 56' 55,258" N	1° 9' 16,558" E
138	52° 56' 55,336" N	1° 9' 15,883" E
139	52° 56' 55,442" N	1° 9' 14,936" E
140	52° 56' 55,566" N	1° 9' 13,609" E
141	52° 56' 55,689" N	1° 9' 12,143" E
142	52° 56' 55,724" N	1° 9' 11,700" E
143	52° 56' 55,761" N	1° 9' 11,231" E
144	52° 56' 55,789" N	1° 9' 10,675" E
145	52° 56' 55,816" N	1° 9' 10,210" E
146	52° 56' 55,838" N	1° 9' 9,767" E
147	52° 56' 55,855" N	1° 9' 9,204" E
148	52° 56' 55,878" N	1° 9' 8,627" E
149	52° 56' 55,882" N	1° 9' 8,037" E
150	52° 56' 55,885" N	1° 9' 7,479" E
151	52° 56' 55,894" N	1° 9' 6,938" E
152	52° 56' 55,906" N	1° 9' 6,520" E
153	52° 56' 55,940" N	1° 9' 5,589" E
154	52° 56' 55,960" N	1° 9' 4,555" E
155	52° 56' 55,985" N	1° 9' 3,908" E
156	52° 56' 56,007" N	1° 9' 3,035" E
157	52° 56' 56,043" N	1° 9' 2,131" E
158	52° 56' 56,081" N	1° 9' 1,281" E
159	52° 56' 56,125" N	1° 9' 0,426" E
160	52° 56' 56,138" N	1° 9' 0,083" E

161	52° 56' 56,144" N	1° 9' 0,019" E
162	52° 56' 56,142" N	1° 8' 59,955" E
163	52° 56' 56,135" N	1° 8' 59,853" E
164	52° 56' 56,120" N	1° 8' 59,728" E
165	52° 56' 56,115" N	1° 8' 59,685" E
166	52° 56' 56,113" N	1° 8' 59,636" E
167	52° 56' 56,116" N	1° 8' 59,535" E
168	52° 56' 56,126" N	1° 8' 59,396" E
169	52° 56' 56,149" N	1° 8' 59,280" E
170	52° 56' 56,156" N	1° 8' 59,130" E
171	52° 56' 56,160" N	1° 8' 59,023" E
172	52° 56' 56,159" N	1° 8' 58,921" E
173	52° 56' 56,153" N	1° 8' 58,797" E
174	52° 56' 56,149" N	1° 8' 58,711" E
175	52° 56' 56,158" N	1° 8' 58,620" E
176	52° 56' 56,166" N	1° 8' 58,567" E
177	52° 56' 56,177" N	1° 8' 58,514" E
178	52° 56' 56,199" N	1° 8' 58,436" E
179	52° 56' 56,210" N	1° 8' 58,388" E
180	52° 56' 56,221" N	1° 8' 58,336" E
181	52° 56' 56,229" N	1° 8' 58,283" E
182	52° 56' 56,234" N	1° 8' 58,224" E
183	52° 56' 56,236" N	1° 8' 58,154" E
184	52° 56' 56,232" N	1° 8' 58,084" E
185	52° 56' 56,213" N	1° 8' 57,949" E
186	52° 56' 56,196" N	1° 8' 57,851" E
187	52° 56' 56,191" N	1° 8' 57,792" E
188	52° 56' 56,190" N	1° 8' 57,727" E
189	52° 56' 56,192" N	1° 8' 57,652" E
190	52° 56' 56,200" N	1° 8' 57,578" E
191	52° 56' 56,212" N	1° 8' 57,482" E
192	52° 56' 56,230" N	1° 8' 57,392" E
193	52° 56' 56,244" N	1° 8' 57,351" E
194	52° 56' 56,255" N	1° 8' 57,303" E
195	52° 56' 56,267" N	1° 8' 57,218" E
196	52° 56' 56,273" N	1° 8' 57,122" E
197	52° 56' 56,271" N	1° 8' 56,950" E
198	52° 56' 56,256" N	1° 8' 56,751" E
199	52° 56' 56,247" N	1° 8' 56,601" E
200	52° 56' 56,242" N	1° 8' 56,536" E
201	52° 56' 56,244" N	1° 8' 56,472" E
202	52° 56' 56,260" N	1° 8' 56,361" E
203	52° 56' 56,274" N	1° 8' 56,303" E
204	52° 56' 56,285" N	1° 8' 56,239" E
205	52° 56' 56,307" N	1° 8' 56,021" E
206	52° 56' 56,320" N	1° 8' 55,647" E
207	52° 56' 56,327" N	1° 8' 55,080" E
208	52° 56' 56,337" N	1° 8' 54,834" E
209	52° 56' 56,357" N	1° 8' 54,434" E
210	52° 56' 56,378" N	1° 8' 53,980" E

211	52° 56' 56,405" N	1° 8' 53,527" E
212	52° 56' 56,442" N	1° 8' 52,977" E
213	52° 56' 56,474" N	1° 8' 52,583" E
214	52° 56' 56,485" N	1° 8' 52,402" E
215	52° 56' 56,493" N	1° 8' 52,215" E
216	52° 56' 56,496" N	1° 8' 52,018" E
217	52° 56' 56,571" N	1° 8' 50,912" E
218	52° 56' 56,607" N	1° 8' 50,422" E
219	52° 56' 56,644" N	1° 8' 49,931" E
220	52° 56' 56,682" N	1° 8' 49,441" E
221	52° 56' 56,719" N	1° 8' 48,951" E
222	52° 56' 56,755" N	1° 8' 48,460" E
223	52° 56' 56,778" N	1° 8' 48,023" E
224	52° 56' 56,793" N	1° 8' 47,584" E
225	52° 56' 56,804" N	1° 8' 47,144" E
226	52° 56' 56,821" N	1° 8' 46,705" E
227	52° 56' 56,849" N	1° 8' 46,269" E
228	52° 56' 57,031" N	1° 8' 44,094" E
229	52° 56' 57,117" N	1° 8' 43,069" E
230	52° 56' 57,183" N	1° 8' 42,274" E
231	52° 56' 57,208" N	1° 8' 42,038" E
232	52° 56' 57,216" N	1° 8' 41,942" E
233	52° 56' 57,222" N	1° 8' 41,846" E
234	52° 56' 57,222" N	1° 8' 41,826" E
235	52° 56' 57,242" N	1° 8' 41,608" E
236	52° 56' 57,243" N	1° 8' 41,601" E
237	52° 56' 57,276" N	1° 8' 41,405" E
238	52° 56' 57,304" N	1° 8' 41,209" E
239	52° 56' 57,335" N	1° 8' 40,949" E
240	52° 56' 57,367" N	1° 8' 40,652" E
241	52° 56' 57,390" N	1° 8' 40,348" E
242	52° 56' 57,409" N	1° 8' 40,076" E
243	52° 56' 57,426" N	1° 8' 39,917" E
244	52° 56' 57,434" N	1° 8' 39,811" E
245	52° 56' 57,442" N	1° 8' 39,576" E
246	52° 56' 57,443" N	1° 8' 39,487" E
247	52° 56' 57,471" N	1° 8' 39,155" E
248	52° 56' 57,517" N	1° 8' 38,578" E
249	52° 56' 57,560" N	1° 8' 37,999" E
250	52° 56' 57,601" N	1° 8' 37,421" E
251	52° 56' 57,628" N	1° 8' 36,995" E
252	52° 56' 57,651" N	1° 8' 36,569" E
253	52° 56' 57,673" N	1° 8' 36,143" E
254	52° 56' 57,696" N	1° 8' 35,716" E
255	52° 56' 57,723" N	1° 8' 35,291" E
256	52° 56' 57,756" N	1° 8' 34,877" E
257	52° 56' 57,791" N	1° 8' 34,520" E
258	52° 56' 57,805" N	1° 8' 34,405" E
259	52° 56' 57,833" N	1° 8' 34,187" E
260	52° 56' 57,854" N	1° 8' 33,996" E

261	52° 56' 57,876" N	1° 8' 33,767" E
262	52° 56' 57,909" N	1° 8' 33,475" E
263	52° 56' 57,937" N	1° 8' 33,262" E
264	52° 56' 57,958" N	1° 8' 33,060" E
265	52° 56' 57,974" N	1° 8' 32,825" E
266	52° 56' 57,988" N	1° 8' 32,547" E
267	52° 56' 57,996" N	1° 8' 32,371" E
268	52° 56' 58,009" N	1° 8' 32,099" E
269	52° 56' 58,026" N	1° 8' 31,698" E
270	52° 56' 58,053" N	1° 8' 31,164" E
271	52° 56' 58,091" N	1° 8' 30,706" E
272	52° 56' 58,128" N	1° 8' 30,178" E
273	52° 56' 58,173" N	1° 8' 29,592" E
274	52° 56' 58,219" N	1° 8' 29,048" E
275	52° 56' 58,278" N	1° 8' 28,431" E
276	52° 56' 58,343" N	1° 8' 27,669" E
277	52° 56' 58,359" N	1° 8' 27,381" E
278	52° 56' 58,372" N	1° 8' 27,216" E
279	52° 56' 58,390" N	1° 8' 26,964" E
280	52° 56' 58,392" N	1° 8' 26,912" E
281	52° 56' 58,403" N	1° 8' 26,797" E
282	52° 56' 58,398" N	1° 8' 26,780" E
283	52° 56' 57,591" N	1° 8' 23,453" E
284	52° 56' 57,607" N	1° 8' 23,312" E
285	52° 56' 57,696" N	1° 8' 22,616" E
286	52° 56' 57,819" N	1° 8' 21,510" E
287	52° 56' 58,021" N	1° 8' 19,543" E
288	52° 56' 58,156" N	1° 8' 18,267" E
289	52° 56' 58,293" N	1° 8' 16,991" E
290	52° 56' 58,371" N	1° 8' 16,290" E
291	52° 56' 58,452" N	1° 8' 15,590" E
292	52° 56' 58,533" N	1° 8' 14,889" E
293	52° 56' 58,611" N	1° 8' 14,188" E
294	52° 56' 58,684" N	1° 8' 13,438" E
295	52° 56' 58,747" N	1° 8' 12,686" E
296	52° 56' 58,808" N	1° 8' 11,957" E
297	52° 56' 58,817" N	1° 8' 11,966" E
298	52° 56' 58,840" N	1° 8' 11,992" E
299	52° 56' 59,726" N	1° 8' 12,960" E
300	52° 57' 0,102" N	1° 8' 13,371" E
301	52° 57' 8,134" N	1° 8' 22,147" E
302	52° 57' 14,357" N	1° 8' 25,824" E
303	52° 57' 22,662" N	1° 8' 28,252" E
304	52° 57' 40,113" N	1° 8' 33,188" E
305	52° 57' 42,426" N	1° 8' 35,383" E
306	52° 57' 52,102" N	1° 8' 56,636" E
307	52° 58' 16,245" N	1° 10' 2,679" E
308	52° 58' 41,839" N	1° 10' 38,668" E
309	52° 59' 7,430" N	1° 11' 14,669" E
310	52° 59' 42,249" N	1° 12' 2,219" E

311	53° 0' 17,064" N	1° 12' 49,789" E
312	53° 0' 35,405" N	1° 13' 4,931" E
313	53° 0' 57,553" N	1° 13' 25,221" E
314	53° 1' 22,451" N	1° 13' 58,051" E
315	53° 1' 27,774" N	1° 14' 5,055" E
316	53° 1' 30,435" N	1° 14' 8,557" E
317	53° 1' 31,101" N	1° 14' 9,432" E
318	53° 1' 31,267" N	1° 14' 9,651" E
319	53° 1' 31,350" N	1° 14' 9,760" E
320	53° 1' 31,433" N	1° 14' 9,870" E
321	53° 1' 31,766" N	1° 14' 10,308" E
322	53° 1' 33,097" N	1° 14' 12,058" E
323	53° 1' 43,742" N	1° 14' 26,066" E
324	53° 1' 54,320" N	1° 14' 36,758" E
325	53° 1' 59,354" N	1° 14' 39,959" E
326	53° 1' 59,983" N	1° 14' 40,359" E
327	53° 2' 0,613" N	1° 14' 40,760" E
328	53° 2' 1,871" N	1° 14' 41,560" E
329	53° 2' 4,388" N	1° 14' 43,161" E
330	53° 2' 14,457" N	1° 14' 49,564" E
331	53° 3' 4,871" N	1° 15' 12,274" E
332	53° 4' 0,089" N	1° 15' 35,690" E
333	53° 4' 23,250" N	1° 15' 46,786" E
334	53° 5' 0,996" N	1° 15' 11,113" E
335	53° 5' 20,705" N	1° 14' 48,183" E
336	53° 5' 33,957" N	1° 13' 54,955" E
337	53° 5' 47,202" N	1° 13' 1,718" E
338	53° 5' 47,266" N	1° 13' 1,677" E
339	53° 5' 47,266" N	1° 13' 1,676" E
340	53° 5' 47,540" N	1° 13' 1,498" E
341	53° 5' 47,545" N	1° 13' 1,495" E
342	53° 5' 50,444" N	1° 12' 59,604" E
343	53° 5' 50,506" N	1° 12' 59,565" E
344	53° 6' 19,018" N	1° 12' 40,975" E
345	53° 6' 19,097" N	1° 12' 40,924" E
346	53° 6' 42,962" N	1° 12' 25,364" E
347	53° 6' 43,080" N	1° 12' 25,287" E
348	53° 7' 12,739" N	1° 12' 5,962" E
349	53° 7' 42,397" N	1° 11' 46,630" E
350	53° 7' 49,968" N	1° 11' 41,694" E
351	53° 8' 12,055" N	1° 11' 27,290" E
352	53° 8' 41,711" N	1° 11' 7,942" E
353	53° 8' 41,717" N	1° 11' 7,938" E
354	53° 8' 49,191" N	1° 11' 3,065" E
355	53° 8' 49,206" N	1° 11' 3,056" E
356	53° 8' 57,559" N	1° 10' 57,610" E
357	53° 8' 57,564" N	1° 10' 57,607" E
358	53° 8' 58,833" N	1° 10' 56,779" E
359	53° 8' 58,859" N	1° 10' 56,762" E
360	53° 9' 10,110" N	1° 10' 9,689" E

361	53° 9' 21,357" N	1° 9' 22,609" E
362	53° 9' 32,598" N	1° 8' 35,522" E
363	53° 9' 43,834" N	1° 7' 48,428" E
364	53° 9' 55,065" N	1° 7' 1,328" E
365	53° 10' 6,290" N	1° 6' 14,221" E
366	53° 10' 17,511" N	1° 5' 27,107" E
367	53° 10' 28,726" N	1° 4' 39,986" E
368	53° 10' 46,425" N	1° 3' 19,628" E
369	53° 11' 4,109" N	1° 1' 59,252" E
370	53° 11' 31,621" N	1° 2' 25,520" E
371	53° 11' 59,131" N	1° 2' 51,798" E
372	53° 12' 26,640" N	1° 3' 18,084" E
373	53° 12' 54,148" N	1° 3' 44,380" E
374	53° 13' 21,654" N	1° 4' 10,686" E
375	53° 13' 49,158" N	1° 4' 37,000" E
376	53° 14' 16,661" N	1° 5' 3,324" E
377	53° 14' 44,162" N	1° 5' 29,657" E
378	53° 14' 10,501" N	1° 6' 22,744" E
379	53° 13' 36,833" N	1° 7' 15,807" E
380	53° 13' 3,158" N	1° 8' 8,847" E
381	53° 12' 29,477" N	1° 9' 1,864" E
382	53° 11' 55,788" N	1° 9' 54,857" E
383	53° 11' 22,093" N	1° 10' 47,828" E
384	53° 10' 48,391" N	1° 11' 40,775" E
385	53° 10' 14,683" N	1° 12' 33,700" E
386	53° 11' 24,043" N	1° 12' 55,421" E
387	53° 12' 33,402" N	1° 13' 17,161" E
388	53° 13' 42,760" N	1° 13' 38,920" E
389	53° 14' 52,117" N	1° 14' 0,698" E
390	53° 16' 1,472" N	1° 14' 22,495" E
391	53° 17' 10,827" N	1° 14' 44,310" E
392	53° 18' 20,180" N	1° 15' 6,145" E
393	53° 19' 29,532" N	1° 15' 27,998" E
394	53° 20' 0,390" N	1° 14' 40,388" E
395	53° 19' 31,548" N	1° 13' 30,141" E
396	53° 19' 2,699" N	1° 12' 19,932" E
397	53° 19' 34,347" N	1° 11' 47,739" E
398	53° 20' 5,992" N	1° 11' 15,533" E
399	53° 20' 37,635" N	1° 10' 43,313" E
400	53° 21' 9,275" N	1° 10' 11,081" E
401	53° 21' 9,340" N	1° 11' 6,237" E
402	53° 21' 9,399" N	1° 12' 1,393" E
403	53° 21' 9,451" N	1° 12' 56,550" E
404	53° 21' 9,495" N	1° 13' 51,706" E
405	53° 21' 9,533" N	1° 14' 46,863" E
406	53° 21' 9,563" N	1° 15' 42,020" E
407	53° 21' 9,584" N	1° 16' 30,130" E
408	53° 21' 9,602" N	1° 17' 32,335" E
409	53° 20' 46,340" N	1° 18' 7,238" E
410	53° 20' 58,886" N	1° 18' 37,507" E

411	53° 21' 16,936" N	1° 18' 58,324" E
412	53° 21' 24,406" N	1° 19' 46,805" E
413	53° 21' 27,180" N	1° 20' 4,816" E
414	53° 21' 37,414" N	1° 21' 11,318" E
415	53° 21' 47,638" N	1° 22' 17,828" E
416	53° 21' 57,851" N	1° 23' 24,348" E
417	53° 21' 25,995" N	1° 23' 42,880" E

7. This marine licence remains in force until the authorised project has been decommissioned in accordance with a programme approved by the Secretary of State under section 106 (approval of decommissioning programmes) of the 2004 Act, including any modification to the programme under section 108, and the completion of such programme has been confirmed by the Secretary of State in writing.

8. The provisions of section 72 (variation, suspension, revocation and transfer) of the 2009 Act apply to this marine licence except that the provisions of section 72(7) and (8) relating to the transfer of the licence apply only to a transfer not falling within article 5 (benefit of order) of the Order.

9.—(1) With respect to any condition which requires the licensed activities be carried out in accordance with the details, plans or schemes approved under this marine licence, the approved details, plans or schemes are taken to include any amendments that may subsequently be approved in writing by the MMO.

(2) Any amendments to or variations from the approved details, plans or schemes must be in accordance with the principles and assessments set out in the environmental statement and approval of an amendment or variation may only be given where it has been demonstrated to the satisfaction of the MMO that it is unlikely to give rise to any materially new or materially different environmental effects from those assessed in the environmental statement.

10. Should the undertaker become aware that any of the information on which the granting of this marine licence was based was materially false or misleading, the undertaker must notify the MMO of this fact in writing as soon as is reasonably practicable. The undertaker must explain in writing what information was materially false or misleading and must provide to the MMO the correct information.

PART 2

Conditions

Design parameters

Offshore Substation Platform

1.—(1) The dimensions of the offshore substation platform in Work No. 3A or 3C (excluding towers, masts and cranes) must not exceed—

- (a) 70 metres in length;
- (b) 40 metres in width; or
- (c) 50 metres in height above HAT.

(2) Offshore substation platform foundation in Work No. 3A or 3C must be of one of the following foundation options: piled jacket or suction bucket jacket.

(3) The offshore substation platform foundation in Work No. 3A or 3C must not—

- (a) have more than four legs;
- (b) have more than eight piles;
- (c) have a pile diameter exceeding 3.5 metres;
- (d) employ a hammer energy during installation exceeding 3,000 kilojoules;

- (e) have a seabed footprint (excluding subsea scour protection) exceeding 452 square metres;
or
 - (f) have a seabed footprint (including subsea scour protection) exceeding 4,761 square metres.
- (4) The total amount of scour protection for the offshore substation platform in Work No. 3A or 3C must not exceed 4,054 square metres.
- (5) The total volume of scour protection for the offshore substation platform in Work No. 3A or 3C must not exceed 7297 cubic metres.

Cables and cable protection

2.—(1) In the event of scenario 1, scenario 2 or scenario 3, within Work Nos. 3A to 5A, the offshore export cables must not, in total—

- (a) exceed one in number;
- (b) exceed 40 kilometres in length;
- (c) exceed four cable crossings;
- (d) have cable protection (including cable crossings) exceeding 9,504 square metres in area; or
- (e) have cable protection (including cable crossings) exceeding 6,885 cubic metres in volume.

(2) In the event of scenario 4 within Work Nos. 3C to 5C, the offshore export cables must not, in total—

- (a) exceed two in number;
- (b) exceed 80 kilometres in length;
- (c) exceed eight cable crossings;
- (d) have cable protection (including cable crossings) exceeding 16,008 square metres in area;
or
- (e) have cable protection (including cable crossings) exceeding 12,645 cubic metres in volume.

(3) In the event of scenario 4, within Work No. 4C the interlink cables must not, in total—

- (a) exceed eight in number;
- (b) exceed 224 kilometres in length;
- (c) exceed fourteen cable crossings;
- (d) have cable protection (including cable crossings) exceeding 30,252 square metres in area;
or
- (e) have cable protection (including cable crossings) exceeding 17,370 cubic metres in volume.

Scenarios and Phases of authorised project

3.—(1) The authorised project must not be commenced until a notification has been submitted to the MMO as to whether the undertaker intends to commence scenario 1, scenario 2, scenario 3 or scenario 4.

(2) The notification required under sub-paragraph (1) must be submitted to the MMO prior to submission of the written scheme to be submitted for approval under sub-paragraph (3).

(3) The authorised project must not be commenced until a written scheme setting out (with regards to the relevant scenario notified under sub-paragraph (1)) the phases of construction of the authorised project has been submitted to and approved in writing by the MMO.

(4) Any subsequent amendments to the written scheme submitted for approval under subparagraphs (3) must be submitted to, and approved by, the MMO.

(5) The written scheme submitted for approval under sub-paragraphs (3) must be implemented as approved. The approved details shall be taken to include any amendment that may subsequently be approved in accordance with sub-paragraph (4).

Vessels under the undertaker's control

4. The undertaker must issue to operators of vessels under the undertaker's control operating within the Order limits a code of conduct to reduce risk of injury to marine mammals.

Extension of time periods

5. Any time period given in this marine licence to either the undertaker or the MMO may be extended with the agreement of the other party, such agreement not to be unreasonably withheld or delayed.

Notifications and inspections

6.—(1) The undertaker must ensure that—

- (a) a copy of this marine licence (issued as part of the grant of the Order) and any subsequent amendments or revisions to it is provided to—
 - (i) all agents and contractors notified to the MMO in accordance with condition 16;
 - (ii) the masters and transport managers responsible for the vessels notified to the MMO in accordance with condition 16; and
- (b) within 28 days of receipt of a copy of this marine licence and any subsequent amendments or revisions to it, those persons referred to in sub-paragraph (1)(a) must confirm receipt of this marine licence in writing to the MMO.

(2) Only those persons and vessels notified to the MMO in accordance with condition 16 are permitted to carry out the licensed activities.

(3) Copies of this marine licence must also be available for inspection at the following locations—

- (a) the undertaker's registered address;
- (b) any site office located at or adjacent to the construction site and used by the undertaker or its agents and contractors responsible for the loading, transportation or deposit of the authorised deposits; and
- (c) on board each vessel and at the office of any transport manager with responsibility for vessels from which authorised deposits or removals are to be made.

(4) The documents referred to in sub-paragraph (1) must be available for inspection by an authorised enforcement officer at the locations set out in sub-paragraph (3).

(5) The undertaker must provide access, and if necessary appropriate transportation, to the offshore construction site or any other associated works or vessels to facilitate any inspection that the MMO considers necessary to inspect the works during the construction and operation of the authorised project.

(6) The undertaker must inform the MMO local office in writing at least five days prior to the commencement of the licensed activities or any part of them and within five days of the completion of the licensed activity.

(7) The undertaker must inform the Kingfisher Information Service of Seafish by email to kingfisher@seafish.co.uk of details of the vessel routes, timings and locations relating to the construction of the authorised project or relevant part—

- (a) at least fourteen days prior to the commencement of offshore activities, for inclusion in the Kingfisher Fortnightly Bulletin and offshore hazard awareness data;
- (b) on completion of construction of all offshore activities,

and confirmation of notification must be provided to the MMO within five days.

(8) The undertaker must ensure that a local notification to mariners is issued at least 14 days prior to the commencement of the authorised project or any part thereof advising of the start date of each of Work Nos. 3A, 4A, 5A, 6A and 7A in the event of scenario 1, scenario 2 or scenario 3 or 3C, 4C, 5C, 6C and 7C in the event of scenario 4 and the expected vessel routes from the construction ports

to the relevant location. Copies of all notices must be provided to the MMO, MCA and UKHO within five days.

(9) The undertaker must ensure that local notifications to mariners are updated and reissued at weekly intervals during construction activities and at least five days before any planned operations (or otherwise agreed) and maintenance works and supplemented with VHF radio broadcasts agreed with the MCA in accordance with the construction programme and monitoring plan approved under condition 12(1)(b). Copies of all notices must be provided to the MMO and UKHO within five days.

(10) The undertaker must notify UKHO of—

- (a) commencement of the licensed activities at least ten working days prior to commencement; and
- (b) completion (within fourteen days) of the authorised project or any part thereof
in order that all necessary amendments to nautical charts are made. Copies of all notices must be provided to the MMO and MCA within five days.

(11) In case of damage to, or destruction or decay of, the authorised project or any part thereof, excluding the exposure of cables, the undertaker must as soon as reasonably practicable and no later than 24 hours following the undertaker becoming aware of any such damage, destruction or decay, notify the MMO, MCA, Trinity House, the Kingfisher Information Service of Seafish and UKHO.

(12) In case of the exposure of cables on or above the seabed, the undertaker must within three days following identification of a potential cable exposure, notify mariners and inform the Kingfisher Information Service of Seafish of the location and extent of exposure. Copies of all notices must be provided to the MMO, MCA, Trinity House, and UKHO within five days.

Aids to navigation

7.—(1) The undertaker must during the whole of the period from commencement of construction of the authorised project to completion of decommissioning of the authorised project exhibit such lights, marks, sounds, signals and other aids to navigation, and take such other steps for the prevention of danger to navigation, as Trinity House may from time to time direct.

(2) The undertaker must during the period from commencement of construction of the authorised project to completion of decommissioning of the authorised project keep Trinity House and the MMO informed of progress of the authorised project including—

- (a) notice of commencement of construction of the authorised project within 24 hours of commencement having occurred;
- (b) notice within 24 hours of any aids to navigation being established by the undertaker; and
- (c) notice within five days of completion of construction of the authorised project.

(3) The undertaker must provide reports to Trinity House on the availability of aids to navigation in accordance with the frequencies set out in the aids to navigation management plan agreed pursuant to condition 12(1)(h) using the reporting system provided by Trinity House.

(4) The undertaker must during the period from commencement of the licensed activities to completion of decommissioning of the authorised project notify Trinity House and the MMO of any failure of the aids to navigation, and the timescales and plans for remedying such failures, as soon as possible and no later than 24 hours following the undertaker becoming aware of any such failure.

(5) In the event that the provisions of condition 6(11) and condition 6(12) are invoked the undertaker must lay down such buoys, exhibit such lights and take such other steps for preventing danger to navigation as directed by Trinity House.

Colouring of structures

8. Except as otherwise required by Trinity House the undertaker must paint all structures forming part of the authorised project yellow (colour code RAL 1023) from at least HAT to a height as directed by Trinity House. Unless the MMO otherwise directs, the undertaker must paint the remainder of the structures grey (colour code RAL 7035).

Aviation safety

9.—(1) The undertaker must exhibit such lights, with such shape, colour and character as are required in writing by the Air Navigation Order 2016 and determined necessary for aviation safety in consultation with the Defence Infrastructure Organisation Safeguarding and as directed by the Civil Aviation Authority.

(2) The undertaker must notify the Defence Infrastructure Organisation Safeguarding, the Civil Aviation Authority and the MMO, at least 14 days prior to the commencement of the authorised project, in writing of the following information—

- (a) the date of the commencement of construction of the authorised project;
- (b) the date any offshore substation platforms are brought into use;
- (c) the maximum height of any construction equipment to be used;
- (d) the maximum height of each offshore substation platform to be constructed;
- (e) the latitude and longitude of each offshore substation platform to be constructed;

and the Defence Infrastructure Organisation Safeguarding and the Civil Aviation Authority must be notified of any changes to the information supplied under this paragraph and of the completion of the construction of the authorised project. Copies of notifications must be provided to the MMO within five days.

Chemicals, drilling and debris

10.—(1) Unless otherwise agreed in writing by the MMO, the carriage and use of chemicals in the construction of the authorised project must comply with the International Convention for the Prevention of Pollution from Ships 1973 as modified by the Protocol of 1978 relating thereto and by the Protocol of 1997.

(2) The undertaker must ensure that any coatings and treatments are suitable for use in the marine environment and are used in accordance with guidelines approved by the Health and Safety Executive and the Environment Agency Pollution Prevention Control Guidelines.

(3) The storage, handling, transport and use of fuels, lubricants, chemicals and other substances must be undertaken so as to prevent releases into the marine environment, including bunding of 110 percent of the total volume of all reservoirs and containers.

(4) The undertaker must inform the MMO in writing of the location and quantities of material disposed of each month under this marine licence by submission of a disposal return by 15 February each year for the months August to January inclusive, and by 15 August each year for the months February to July inclusive.

(5) The undertaker must ensure that only inert material of natural origin, produced during pre-sweeping sandwave clearance where relevant, the drilling installation of or seabed preparation for foundations, and drilling mud is disposed of within the Order limits seaward of MHWS.

(6) The undertaker must ensure that any rock material used in the construction of the authorised project is from a recognised source, free from contaminants and containing minimal fines.

(7) In the event that any rock material used in the construction of the authorised project is misplaced or lost below MHWS, the undertaker must report the loss in writing to the local enforcement office within 24 hours and if the MMO, in consultation with the MCA and Trinity House, reasonably considers such material to constitute a navigation or environmental hazard (dependent on the size and nature of the material) the undertaker must, in that event, demonstrate to the MMO that reasonable attempts have been made to locate, remove or move any such material.

(8) The undertaker must ensure that no waste, concrete, slurry or wash water from concrete or cement works are discharged into the marine environment. Concrete and cement mixing and washing areas must be contained to prevent run off entering the water through the freeing ports.

(9) The undertaker must ensure that any oil, fuel or chemical spill within the marine environment is reported to the MMO Marine Pollution Response Team in accordance with the marine pollution contingency plan agreed under condition 12(1)(d)(i).

(10) All dropped objects must be reported to the MMO using the Dropped Object Procedure Form as soon as reasonably practicable and in any event within 24 hours of the undertaker becoming aware of an incident. On receipt of the Dropped Object Procedure Form the MMO may require relevant surveys to be carried out by the undertaker (such as side scan sonar) if reasonable to do so and the MMO may require obstructions to be removed from the seabed at the undertaker's expense if reasonable to do so.

Force majeure

11. If, due to stress of weather or any other cause, the master of a vessel determines that it is necessary to deposit the authorised deposits within or outside of the Order limits because the safety of human life or of the vessel is threatened, within 48 hours the undertaker must notify full details of the circumstances of the deposit to the MMO.

Pre-construction plans and documentation

12.—(1) The licensed activities or any phase of those activities must not commence until the following (insofar as relevant to that activity or phase of activity) have been submitted to and approved in writing by the MMO, in consultation with Trinity House, the MCA and UKHO as appropriate—

- (a) a plan prepared in accordance with the layout commitments setting out proposed details of the authorised project, including the—
 - (i) number, dimensions, specification, foundation type(s) and depth for each wind turbine generator, offshore platform and substation;
 - (ii) the grid coordinates of the centre point of the proposed location for each wind turbine generator, platform and substation;
 - (iii) proposed layout of all cables;
 - (iv) location and specification of all other aspects of the authorised project; and
 - (v) any exclusion zones or micro-siting requirements identified pursuant to 12(1)(f)(v) or relating to any benthic habitats of conservation, ecological or economic importance constituting Annex I reef habitats identified as part of surveys undertaken in accordance with condition 17;

to ensure conformity with the description of Work Nos. 3A to 5A and 7A or 3C to 5C and 7C and compliance with conditions 1 and 2;

- (b) a construction programme and monitoring plan (which accords with the offshore in principle monitoring plan) which, save in respect of information submitted pursuant to subparagraph (b)(iii)(aa), is to be submitted to the MMO at least six months prior to commencement of licensed activities and to include details of—
 - (i) the proposed construction start date;
 - (ii) proposed timings for mobilisation of plant, delivery of materials and installation works;
 - (iii) proposed pre-construction surveys, baseline report format and content, construction monitoring, post-construction surveys and monitoring and related reporting in accordance with conditions 17, 18 and 19 to be submitted to the MMO in accordance with the following (unless otherwise agreed in writing with the MMO)—
 - (aa) at least four months prior to the first survey, detail of the pre-construction surveys and an outline of all proposed pre-construction monitoring;
 - (bb) at least four months prior to construction, detail on construction monitoring; and
 - (cc) at least four months prior to commissioning, detail of post-construction (and operational) monitoring;

- (iv) an indicative written construction programme for all offshore substation platforms and cables including fibre optic cables comprised in the works at Part 1 (licensed marine activities) of this Schedule (insofar as not shown in paragraph (ii) above);
- (c) a construction method statement in accordance with the construction methods assessed in the environmental statement, including details of—
 - (i) cable specification, installation and monitoring for cables located outside of the Cromer Shoal Chalk Beds Marine Conservation Zone to include—
 - (aa) the technical specification of cables below MHWS;
 - (bb) a detailed cable laying plan for the authorised project, incorporating a burial risk assessment encompassing the identification of any cable protection that exceeds 5 percent of navigable depth referenced to Chart Datum and, in the event that any area of cable protection exceeding 5 percent of navigable depth is identified, details of any steps (to be determined following consultation with the MCA and Trinity House) to be taken to ensure existing and future safe navigation is not compromised or similar such assessment to ascertain suitable burial depths and cable laying techniques, including cable protection; and
 - (cc) proposals for monitoring cables including cable protection until the authorised project is decommissioned which includes a risk-based approach to the management of unburied or shallow buried cables;
 - (ii) scour protection and cable protection including details of the need, type, sources, quantity and installation methods for scour protection and cable protection, with details updated and resubmitted for approval if changes to it are proposed following cable laying operations;
 - (iii) foundation installation methodology, including drilling methods and disposal of drill arisings and material extracted during seabed preparation for foundation and cable installation works and having regard to any mitigation scheme pursuant to subparagraph (1)(a)(i);
 - (iv) advisory safe passing distances for vessels around construction sites;
 - (v) contractors;
 - (vi) vessels and vessel transit corridors;
 - (vii) associated ancillary works; and
 - (viii) guard vessels to be employed;
- (d) a project environmental management plan (in accordance with the outline project environmental management plan) covering the period of construction and operation to include details of—
 - (i) a marine pollution contingency plan to address the risks, methods and procedures to deal with any spills and collision incidents during construction and operation of the authorised project in relation to all activities carried out;
 - (ii) a chemical risk assessment, including information regarding how and when chemicals are to be used, stored and transported in accordance with recognised best practice guidance;
 - (iii) waste management and disposal arrangements;
 - (iv) the appointment and responsibilities of a fisheries liaison officer;
 - (v) a fisheries liaison and coexistence plan (which accords with the outline fisheries liaison and co-existence plan) to ensure relevant fishing fleets are notified of commencement of licensed activities pursuant to condition 4 and to address the interaction of the licensed activities with fishing activities; and
 - (vi) procedures, which must be adopted within vessel transit corridors to minimise disturbance to red-throated diver during the period 1 November to 31 March (inclusive), which must be in accordance with the best practice protocol for minimising disturbance to red throated diver;

- (vii) a code of conduct for vessel operators to reduce risk of injury to mammals;
- (e) a cable specification, installation and monitoring plan for the installation of cables within the Cromer Shoal Chalk Beds Marine Conservation Zone (in accordance with the outline Cromer Shoal Chalk Beds Marine Conservation Zone cable specification, installation and monitoring plan);
- (f) an archaeological written scheme of investigation in relation to the offshore Order limits seaward of MHWS, which must accord with the outline written scheme of investigation (offshore) and industry good practice, in consultation with the statutory historic body to include—
 - (i) details of responsibilities of the undertaker, archaeological consultant and contractor;
 - (ii) a methodology for further site investigation including any specifications for geophysical, geotechnical and diver or remotely operated vehicle investigations;
 - (iii) archaeological analysis of survey data, and timetable for reporting, which is to be submitted to the MMO within four months of any survey being completed;
 - (iv) delivery of any mitigation including, where necessary, identification and modification of archaeological exclusion zones;
 - (v) monitoring of archaeological exclusion zones during and post construction;
 - (vi) a requirement for the undertaker to ensure that a copy of any agreed archaeological report is deposited with the Archaeological Data Service, by submitting an OASIS (“Online Access to the Index of archaeological investigations”) form with a digital copy of the report within six months of completion of construction of the authorised project, and to notify the MMO and Historic England that the OASIS form has been submitted to the Archaeological Data Service within two weeks of submission;
 - (vii) a reporting and recording protocol, including reporting of any wreck or wreck material during construction, operation and decommissioning of the authorised project; and
 - (viii) a timetable for all further site investigations, which must allow sufficient opportunity to establish a full understanding of the historic environment within the offshore Order limits and the approval of any necessary mitigation required as a result of the further site investigations prior to commencement of licensed activities;
- (g) an offshore operations and maintenance plan (in accordance with the outline offshore operations and maintenance plan), to be submitted to the MMO at least six months prior to commencement of operation of the licensed activities and to provide for review and resubmission every three years during the operational phase;
- (h) an aids to navigation management plan to be agreed in writing by the MMO following consultation with Trinity House specifying how the undertaker will ensure compliance with condition 7 from the commencement of construction of the authorised project to the completion of decommissioning;
- (i) in the event that driven or part-driven pile foundations are proposed to be used, a marine mammal mitigation protocol (in accordance with the draft marine mammal mitigation protocol), the intention of which is to prevent injury to marine mammals, following current best practice as advised by the relevant statutory nature conservation bodies, to be submitted to the MMO at least six months prior to commencement of licensed activities;
- (j) a mitigation scheme for any benthic habitats of conservation, ecological and/or economic importance constituting Annex I reef habitats and including the designated features of the MCZ identified by the survey referred to in condition 17(4)(a) and in accordance with the offshore in principle monitoring plan;
- (k) an ornithological monitoring plan setting out the circumstances in which ornithological monitoring will be required and the monitoring to be carried out in such circumstances to be submitted to the MMO at least six months prior to commencement of licensed activities; and
- (l) a navigation management plan to manage crew transfer vessels (including daughter craft) during the construction and operation of the authorised project.

(2) Pre-commencement surveys and archaeological investigations and pre-commencement material operations which involve intrusive seabed works must only take place in accordance with a specific outline written scheme of investigation (which must accord with the details set out in the outline written scheme of investigation (offshore)) which has been submitted to and approved by the MMO.

Site Integrity Plan

13.—(1) No piling activities can take place until a Site Integrity Plan (“SIP”), which accords with the principles set out in the in principle Site Integrity Plan for the Southern North Sea Special Area of Conservation, has been submitted to, and approved in writing, by the MMO in consultation with the relevant statutory nature conservation body.

(2) The SIP submitted for approval must contain a description of the conservation objectives for the Southern North Sea Special Area of Conservation (“SNS SAC”) as well as any relevant management measures and it must set out the key statutory nature conservation body advice on activities within the SNS SAC relating to piling as set out within the JNCC Guidance and how this has been considered in the context of the authorised project.

(3) The SIP must be submitted in writing to the MMO no later than six months prior to the commencement of piling activities.

(4) In approving the SIP the MMO must be satisfied that the authorised project at the preconstruction stage, in combination with other plans and projects, is in line with the JNCC Guidance.

(5) The approved SIP may be amended with the prior written approval of the MMO, in consultation with the relevant statutory nature conservation body, where the MMO remains satisfied that the authorised project, in combination with other plans or projects at the pre-construction stage, is in line with the JNCC Guidance.

14.—(1) Each programme, statement, plan, protocol or scheme required to be approved under condition 12 must be submitted for approval at least four months before the intended commencement of licensed activities, except where otherwise stated or unless otherwise agreed in writing by the MMO.

(2) The MMO must determine an application for approval made under conditions 12 and 13 within a period of four months commencing on the date the application is received by the MMO, unless otherwise agreed in writing with the undertaker.

(3) The licensed activities must be carried out in accordance with the plans, protocols, statements, schemes and details approved under conditions 12 and 13, unless otherwise agreed in writing by the MMO.

Offshore safety management

15. No part of the authorised project may commence until the MMO, in consultation with the MCA, has confirmed in writing that the undertaker has taken into account and, so far as is applicable to that stage of the authorised project, adequately addressed all MCA recommendations as appropriate to the authorised project contained within MGN654 “Offshore Renewable Energy Installations (OREIs) – Guidance on UK Navigational Practice, Safety and Emergency Response Issues” (or any equivalent guidance that replaces or supersedes it) and its annexes.

Reporting of engaged agents, contractors and vessels

16.—(1) The undertaker must provide the following information in writing to the MMO—

- (a) the name, function, company number (if applicable), registered or head office address (as appropriate) of any agent or contractor appointed to engage in the licensed activities within seven days of appointment; and
- (b) each week during the construction of the authorised project a completed Hydrographic Note H102 listing the vessels currently and to be used in relation to the licensed activities.

(2) The undertaker must notify the MMO in writing of any vessel being used to carry on any licensed activity listed in this marine licence on behalf of the undertaker. 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.

(3) Any changes to the supplied details must be notified to the MMO in writing at least 24 hours before the agent, contractor or vessel engages in the licensed activities.

Pre-construction monitoring and surveys

17.—(1) The undertaker must, in discharging condition 12(1)(b), submit a monitoring plan or plans in accordance with the offshore in principle monitoring plan for written approval in writing by the MMO in consultation with the relevant statutory nature conservation body, which must contain details of proposed monitoring and surveys, including methodologies and timings, and a proposed format and content for a pre-construction baseline report.

(2) The survey proposals submitted under sub-paragraph (1) must be in general accordance with the principles set out in the offshore in principle monitoring plan and must specify each survey's objectives and explain how it will assist in either informing a useful and valid comparison with the post-construction position or will enable the validation or otherwise of key predictions in the environmental statement.

(3) The baseline report proposals submitted under sub-paragraph (1) must ensure that the outcome of the agreed surveys, together with existing data and reports, are drawn together to present a valid statement of the pre-construction position, with any limitations, and must make clear what post-construction comparison is intended and the justification for this being required.

(4) The pre-construction surveys referred to in sub-paragraph (1) must, unless otherwise agreed with the MMO, have due regard to, but not be limited to, the need to undertake—

- (a) an appropriate survey to determine the location, extent and composition of any benthic habitats of conservation, ecological and/or economic importance constituting Annex 1 reef habitats in the parts of the Order limits in which it is proposed to carry out construction works;
- (b) a swath-bathymetry survey to IHO Order 1a standard that meets the requirements MGN654 and its annexes, and side scan sonar, of the area(s) within the Order limits in which it is proposed to carry out construction works;
- (c) undertake or contribute to any marine mammal monitoring referred to in the marine mammal mitigation protocol submitted in accordance with condition 12(1)(i); and
- (d) any ornithological monitoring required by the ornithological monitoring plan submitted in accordance with condition 12(1)(k).

(5) The undertaker must carry out the surveys specified within the monitoring plan or plans in accordance with that plan or plans, unless otherwise agreed in writing by the MMO in consultation with the relevant statutory nature conservation body.

Construction monitoring and surveys

18.—(1) The undertaker must, in discharging condition 12(1)(b), submit details (which accord with the offshore in principle monitoring plan) for approval in writing by the MMO in consultation with the relevant statutory nature conservation bodies of any proposed monitoring and surveys, including methodologies and timings, to be carried out during the construction of the authorised project. The survey proposals must specify each survey's objectives.

(2) In the event that driven or part-driven pile foundations are proposed, such monitoring must include measurements of noise generated by the installation of the first four piled foundations of each piled foundation type to be installed unless the MMO otherwise agrees in writing.

(3) The undertaker must carry out the surveys approved under sub-paragraph (1), including any further noise monitoring required in writing by the MMO, and provide the agreed reports in the

agreed format in accordance with the agreed timetable, unless otherwise agreed in writing with the MMO in consultation with the relevant statutory nature conservation bodies.

(4) The results of the initial noise measurements monitored in accordance with sub-paragraph (2) must be provided to the MMO within six weeks of the installation of the first four piled foundations. The assessment of this report by the MMO will determine whether any further noise monitoring is required. If, in the reasonable opinion of the MMO in consultation with the relevant statutory nature conservation body, the assessment shows significantly different impacts to those assessed in the environmental statement or failures in mitigation, all piling activity must cease until an update to the marine mammal mitigation protocol and further monitoring requirements have been agreed.

(5) The undertaker must carry out the surveys specified in the construction monitoring plan in accordance with that plan, including any further noise monitoring required in writing by the MMO under sub-paragraph (4), unless otherwise agreed in writing by the MMO in consultation with the relevant statutory nature conservation body.

(6) Construction monitoring must include vessel traffic monitoring in accordance with the outline marine traffic monitoring plan, including the provision of reports on the results of that monitoring at the end of each year of the construction period to the MMO, MCA and Trinity House.

(7) In the event that piled foundations are proposed to be used, the details submitted in accordance with the marine mammal mitigation protocol must include proposals for monitoring marine mammals.

Post-construction monitoring and surveys

19.—(1) The undertaker must, in discharging condition 12(1)(b), submit details (which accord with the offshore in principle monitoring plan) for approval in writing by the MMO in consultation with the relevant statutory nature conservation bodies of proposed post-construction monitoring and surveys, including methodologies and timings, and a proposed format, content and timings for providing reports on the results.

(2) The survey proposals must specify each survey's objectives and explain how it will assist in either informing a useful and valid comparison with the pre-construction position and/or will enable the validation or otherwise of key predictions in the environmental statement.

(3) The post-construction surveys referred to in sub-paragraph (1) must, unless otherwise agreed with the MMO, have due regard to, but not be limited to, the need to—

- (a) undertake an appropriate survey to determine any change in the location, extent and composition of any benthic habitats of conservation, ecological and/or economic importance constituting Annex 1 reef habitats identified in the pre-construction survey in the parts of the Order limits in which construction works were carried out. The survey design must be informed by the results of the pre-construction benthic survey;
- (b) undertake, within twelve months of completion of the licensed activities, a full sea floor coverage swath-bathymetry survey that meets the requirements of MGN654 and its annexes, and side scan sonar, of the area(s) within the Order limits in which construction works were carried out to assess any changes in bedform topography and such further monitoring or assessment as may be agreed to ensure that cables (including fibre optic cables) have been buried or protected;
- (c) undertake any ornithological monitoring required by the ornithological monitoring plan submitted in accordance with condition 12(1)(k);
- (d) undertake post-construction traffic monitoring in accordance with the outline marine traffic monitoring plan, including the provision of reports on the results of that monitoring to the MMO, the MCA and Trinity House;
- (e) undertake or contribute to any marine mammal monitoring referred to in the marine mammal mitigation protocol submitted in accordance with condition 12(1)(i); and
- (f) undertake monitoring of cables installed within the Cromer Shoal Chalk Beds MCZ in accordance with any monitoring required by the cable specification, installation and

monitoring plan for the installation of cables within the Cromer Shoal Chalk Beds Marine Conservation Zone submitted in accordance with condition 12(1)(e).

(4) The undertaker must carry out the surveys agreed under sub-paragraph (1) and provide the agreed reports to the MMO in the agreed format in accordance with the agreed timetable, unless otherwise agreed in writing with the MMO in consultation with the relevant statutory nature conservation bodies.

(5) Following installation of cables, the cable monitoring plans required under conditions 12(1)(c) and 12(1)(e) must be updated with the results of the post installation surveys. The plans must be implemented until the authorised project is decommissioned and reviewed as specified within the plan, following cable burial surveys, or as instructed by the MMO.

(6) In the event that the reports provided to the MMO under sub-paragraph (4) identify a need for additional monitoring, the requirement for any additional monitoring will be agreed with the MMO in writing and implemented as agreed.

(7) In the event that monitoring reports provided to the MMO under sub-paragraph (4) identify impacts which are unanticipated and or beyond those predicted within the Environmental Statement or the Habitats Regulations Assessment an adaptive management plan to reduce effects to within what was predicted in the Environmental Statement and Habitat Regulations Assessment, unless otherwise agreed by the MMO, must be submitted under sub-paragraph (4). This plan must be agreed with MMO in consultation with the relevant statutory nature conservation bodies to reduce effects to an agreed suitable level for the authorised project. Any such agreed and approved adaptive management or mitigation plan shall be implemented and monitored in full to a timetable first agreed in writing with the MMO. In the event that this adaptive management or mitigation requires a separate consent, the undertaker shall apply for such consent. Where a separate consent is required to undertake the agreed adaptive management or mitigation, the undertaker shall only be required to undertake the adaptive management or mitigation once the consent is granted.

Reporting of scour and cable protection

20.—(1) Not more than four months following completion of the construction of the authorised project, the undertaker must provide the MMO and the relevant statutory nature conservation bodies with a report setting out details of the cable protection and scour protection used for the authorised project.

(2) The report must include the following information—

- (a) the location of cable protection and scour protection;
- (b) the volume of cable protection and scour protection; and
- (c) any other information relating to the cable protection and scour protection as agreed between the MMO and the undertaker.

Completion of construction

21.—(1) The undertaker must submit a close out report to the MMO, the MCA, Trinity House, UKHO and the relevant statutory nature conservation body within three months of the date of completion of construction. The close out report must confirm the date of completion of construction and must include details of the latitude and longitude co-ordinates of the export cables, provided as Geographical Information System data referenced to WGS84 datum.

(2) Following completion of construction, no further construction activities can be undertaken under this marine licence.

Sediment Sampling

22.—(1) The undertaker must submit a sample plan request in writing to the MMO for written approval of a sample plan.

(2) The sample plan request must be made—

- (a) for capital dredging, at least six months prior to the commencement of any capital dredging;
or
 - (b) for maintenance dredging, at least six months prior to the end of every third year from the date of the previous sediment sample analysis.
- (3) The sample plan request must include details of—
- (a) the volume of material to be dredged;
 - (b) the location of the area to be dredged;
 - (c) details of the material type proposed for dredging;
 - (d) the type and dredging methodology (including whether it is a capital or maintenance dredge, depth of material to be dredged and proposed programme for the dredging activities); and
 - (e) the location and depth of any supporting samples.
- (4) Unless otherwise agreed by the MMO, the undertaker must undertake the sampling in accordance with the approved sample plan.

Collaboration

23.—(1) Prior to submission of plans and documentation required to be submitted to the MMO for approval in accordance with conditions 12 and 13, the undertaker must provide a copy of the relevant plans and documentation to DEL to enable DEL to provide any comments on the plans and documentation to the undertaker.

(2) The plans and documentation submitted to the MMO for approval in accordance with conditions 12 and 13 must be accompanied by any comments received by the undertaker from DEL in accordance with sub-paragraph (1) or a statement from the undertaker confirming that no such comments were received.

Seasonal Restriction

24.—(1) The undertaker must not carry out any cable installation works within the GW during the winter period.

(2) For the purpose of this condition—

“the GW” means the site designated as the Greater Wash Special Protection Area;

“winter period” means the period between 1 November to 31 March inclusive.

Obstacle free zone for navigational safety

25. No infrastructure of any type included within the offshore works, including wind turbine generators and offshore substation platforms, shall be installed within the area defined by the coordinates as specified below and no part of any wind turbine generator, including its blades, may overfly into the area:

<i>Point ID of the area</i>	<i>Latitude (D°M.MM)</i>	<i>Longitude (D°M.MM)</i>
A (NW corner)	53°21.1541' N	1°10.1853' E
B (SW corner)	53°19.0449' N	1°12.3327' E
C (SE corner)	53°19.5696' N	1°13.6102' E
D (NE corner)	53°21.1558' N	1°11.8346' E

SCHEDULE 13

Article 30

Marine Licence 4: Dudgeon Extension Project Offshore Transmission – Work Nos 3B to 7B or 3C to 7C

PART 1

Licensed marine activities

Interpretation

1.—(1) In this marine licence—

“the 2004 Act” means the Energy Act 2004;

“the 2008 Act” means the Planning Act 2008;

“the 2009 Act” means the Marine and Coastal Access Act 2009;

“the 2017 Regulations” means the Conservation of Offshore Marine Habitats and Species Regulations 2017;

“Annex 1 reef” means a reef of a type listed in Annex 1 to Council Directive 92/43/EEC on the conservation of natural habitats and of wild fauna and flora;

“authorised deposits” means the substances and articles specified in paragraph 4 of Part 1 of this marine licence;

“authorised project” means Work Nos. 3B to 7B (in the event of scenario 1, scenario 2 or scenario 3) or 3C to 7C (in the event of scenario 4) and the further associated development described in paragraph 3 of Part 1 of this marine licence or any part of those works or development;

“buoy” means any floating device used for navigational purposes or measurement purposes including LiDAR buoys, wave buoys and guard buoys;

“cable” includes cables for the transmission of electricity and fibre-optic cables;

“cable crossing” means the crossing of existing subsea cables and pipelines by the array, inter-array or export cables authorised by the Order and forming part of the authorised project together with physical protection measures including cable protection;

“cable protection” means measures to protect cables forming part of the authorised project from physical damage and exposure due to loss of seabed sediment including, but not limited to, rock placement, mattresses with or without frond devices, protective aprons or coverings, bagged solutions filled with sand, rock, grout or other materials and protective shells;

“commence” means the first carrying out of any licensed marine activities authorised by this marine licence, save for pre-construction monitoring surveys approved under this marine licence, and “commenced” and “commencement” must be construed accordingly;

“commercial operation” means in relation to any part of the authorised project, the exporting, transmission or conversion, on a commercial basis, of electricity;

“Cromer Shoal Chalk Beds MCZ” means the Marine Conservation Zone designated by the Secretary of State under the Cromer Shoal Chalk Beds Marine Conservation Zone Designation Order 2016;

“Defence Infrastructure Organisation Safeguarding” means Ministry of Defence Safeguarding, Defence Infrastructure Organisation, St George’s House, DIO Head Office, DMS Whittington, Lichfield, Staffordshire, WS14 9PY and any successor body to its functions;

“DEL” means Dudgeon Extension Limited, company number 12148301, whose registered office is at 1 Kingdom Street, London W2 6BD;

“DEP North” means the array extension area located to the north of DOW;

“DEP South” means the array extension area located to the south of DOW;

“DOW” means the Dudgeon Offshore Wind Farm;

“draft marine mammal mitigation protocol” means the document certified as the draft marine mammal mitigation protocol by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order;

“Dudgeon Extension Project” means the Dudgeon Extension Project offshore works and the Dudgeon Extension Project onshore works;

“Dudgeon Extension Project offshore works” means—

- (a) in the event of scenario 1, scenario 2 or scenario 3, Work Nos. 1B to 7B and any other authorised development associated with those works; or
- (b) in the event of scenario 4, Work Nos. 1B, 2B, the integrated offshore works and any other authorised development associated with those works;

“Dudgeon Extension Project onshore works” means—

- (a) in the event of scenario 1 or scenario 2, Work Nos. 8B to 22B and any other authorised development associated with those works; or
- (b) in the event of scenario 3, Work Nos. 8B to 14B, the scenario 3 integrated onshore works, Work Nos. 18B to 22B, and any other authorised development associated with those works;
- (c) in the event of scenario 4, Work Nos. 10B, 11B, 13B, 14B, the scenario 4 integrated onshore works, Work Nos. 18B to 22B, and any other authorised development associated with those works;

“environmental statement” means the document certified as the environmental statement by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order;

“gravity base structure foundation” means a structure principally of steel, concrete, or steel and concrete which rests on the seabed either due to its own weight with or without added ballast, skirts or other additional fixings, and associated equipment including scour protection, J-tubes, corrosion protection systems, access platforms and equipment and separate topside connection structures or integrated transition pieces;

“HAT” means highest astronomical tide;

“HDD” or “horizontal directional drilling” refers to a trenchless technique for installing cables and cable ducts involving drilling in an arc between two points;

“HVAC” means high voltage alternating current;

“in-field cable” means a subsea cable linking two or more offshore structures;

“in principle Site Integrity Plan for the Southern North Sea Special Area of Conservation” means the document certified as the in principle Site Integrity Plan for the Southern North Sea Special Area of Conservation by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order;

“integrated offshore substation platform” means a single offshore substation platform to be constructed and operated for the benefit of both SEL and DEL;

“integrated offshore works” means Work Nos. 3C, 4C, 5C, 6C and 7C;

“interlink cable” means a subsea cable linking two offshore areas;

“intrusive activities” means activities including anchoring of vessels, jacking up of vessels, temporary deposits and temporary wet storage areas;

“jacket foundation” means a lattice type structure constructed of steel, which may include scour protection and additional equipment such as J-tubes, corrosion protection systems and access platforms;

“JNCC Guidance” means the statutory nature conservation body ‘Guidance for assessing the significance of noise disturbance against Conservation Objectives of harbour porpoise SACs’

Joint Nature Conservation Committee Report No.654, May 2020 published in June 2020 as amended, updated or superseded from time to time;

“joint bay” means an excavation located at regular intervals along the cable route consisting of a concrete flat base slab constructed beneath the ground to facilitate the jointing together of the cables;

“LAT” means lowest astronomical tide;

“land plans” means the plans certified as the land plans by the Secretary of State under article 37 of the Order;

“layout commitments” means the layout commitments contained within the navigation risk assessment at appendix 13.1 of the environmental statement;

“licensed activities” means the activities specified in Part 1 of this licence;

“maintain” includes inspect, upkeep, repair, adjust and alter the authorised project; in relation to any of the ancillary works, any cable, any component part of any wind turbine generator (including a component part of its foundation or transition piece), any component part of any offshore substation platform (including a component part of its foundation), further includes remove, reconstruct and replace (including the replenishment of cable and scour protection); and in all cases to the extent assessed in the environmental statement; and “maintenance” must be construed accordingly;

“Marine Management Organisation” means the body created under the 2009 Act which is responsible for the regulation of this marine licence or any successor of that function and “MMO” shall be construed accordingly;

“MCA” means the Maritime and Coastguard Agency, the executive agency of the Department for Transport;

“MCMS” means the Marine Case Management System web portal provided and operated by the MMO;

“MHWS” or “mean high water springs” means the highest level that spring tides reach on average over a period of time;

“MLWS” or “mean low water springs” means the lowest level that spring tides reach on average over a period of time;

“monopile foundation” means a steel pile driven or drilled into the seabed and associated equipment including scour protection, J-tubes, corrosion protection systems and access platforms and equipment;

“offshore in principle monitoring plan” means the document certified as the offshore in principle monitoring plan by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order;

“offshore order limits and grid coordinates plan” means the plans certified as the offshore order limits and grid coordinates plan by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order;

“offshore substation platform” means a structure above LAT and attached to the seabed by means of a foundation, with one or more decks and open with modular equipment or fully clad, containing—

- (a) electrical equipment required to switch, transform or convert electricity generated at the wind turbine generators to a higher voltage and provide reactive power compensation, including high voltage power transformers, high voltage switchgear and busbars, substation auxiliary systems and low voltage distribution, instrumentation, metering equipment and control systems, standby generators, shunt reactors, auxiliary and uninterruptible power supply systems;
- (b) accommodation, storage, workshop auxiliary equipment and facilities for operating, maintaining and controlling the substation or wind turbine generators, including navigation, aviation and safety marking and lighting, systems for vessel access and retrieval, cranes, potable water supply, black water separation, stores, fuels and spares, communications systems and control hub facilities;

“offshore works” means—

- (a) in the event of scenario 1, scenario 2 or scenario 3, Work Nos. 1A to 7A, 1B to 7B and any other authorised development associated with those works;
- (b) in the event of scenario 4, Work Nos. 1A, 1B, 2A, 2B, the integrated offshore works, and any other authorised development associated with those works;

“onshore works” means—

- (a) in the event of scenario 1 or scenario 2, Work Nos. 8A to 22A, Work Nos. 8B to 22B and any other authorised development associated with those works; or
- (b) in the event of scenario 3, Work Nos. 8A to 14A, 8B to 14B, the scenario 3 integrated onshore works, 18A to 22A, 18B to 22B and any other authorised development associated with those works; or
- (c) in the event of scenario 4, Work Nos. 10A, 10B, 11A, 11B, 13A, 13B, 14A, 14B, 18A to 22A and 18B to 22B, the scenario 4 integrated onshore works and any other authorised development associated with those works;

“Order” means The Sheringham Shoal and Dudgeon Extensions Offshore Wind Farm Order 2024;

“Order land” means the land shown on the land plans which is within the limits of land to be acquired or used and described in the book of reference;

“Order limits” means the limits shown on the offshore order limits and grid coordinates plans within which the authorised project may be carried out and the grid coordinates for Work Nos. 3B, 4B, 5B and 7B are set out in paragraph 5 of Part 1 of this marine licence and the grid coordinates for Work Nos. 3C, 4C, 5C and 7C are set out in paragraph 6 of Part 1 of this marine licence;

“outline Cromer Shoal Chalk Beds Marine Conservation Zone cable specification, installation and monitoring plan” means the document certified as the cable specification, installation and monitoring plan by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order;

“outline fisheries liaison and co-existence plan” means the document certified as the outline fisheries liaison and co-existence plan by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order;

“outline marine traffic monitoring plan” means the document certified as the outline marine traffic monitoring plan by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order;

“outline offshore operations and maintenance plan” means the document certified as the outline offshore operations and maintenance plan by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order;

“outline project environmental management plan” means the document certified as the outline project environmental management plan by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order;

“outline written scheme of investigation (offshore)” means the document certified as the outline written scheme of investigation (offshore) by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order;

“scour protection” means measures to prevent loss of seabed sediment around any structure placed in or on the seabed including by the use of bagged solutions, filled with grout or other materials, protective aprons, mattresses with or without frond devices, flow energy dissipation devices and rock and gravel placement;

“SEL” means Scira Extension Limited, company number 12239260, whose registered office is at 1 Kingdom Street, London W2 6BD;

“scenario 1” means each generating station will be constructed in any one of the following ways—

- (a) the construction of the Sheringham Shoal Extension Project only where the Dudgeon Extension Project does not proceed to construction;
- (b) the construction of the Dudgeon Extension Project only where the Sheringham Shoal Extension Project does not proceed to construction;
- (c) sequential construction where the Sheringham Shoal Extension Project is constructed first then the Dudgeon Extension Project is constructed second or vice versa; or
- (d) concurrent construction of the Sheringham Shoal Extension Project and the Dudgeon Extension Project;

“scenario 2” means a sequential construction scenario in which either the Sheringham Shoal Extension Project is constructed first and SEL installs the ducts for the Dudgeon Extension Project or the Dudgeon Extension Project is constructed first and DEL installs the ducts for the Sheringham Shoal Extension Project;

“scenario 3” means—

- (a) sequential or concurrent construction of Work Nos. 1A to 14A, 18A to 22A, 1B to 14B, 18B to 22B; and
- (b) construction of the scenario 3 integrated onshore works; “scenario 3 integrated onshore works” means Work Nos. 15C to 17C;

“scenario 4” means—

- (a) sequential or concurrent construction of Work Nos. 1A, 1B, 2A, 2B, 10A, 10B, 11A, 11B, 13A, 13B, 14A, 14B, 18A to 22A, 18B to 22B; and
- (b) construction of the integrated offshore works and the scenario 4 integrated onshore works;

“scenario 4 integrated onshore works” means Work Nos. 8C, 9C, 12C, 15C, 16C and 17C;

“Sheringham Shoal Extension Project” means the Sheringham Shoal Extension Project onshore works and the Sheringham Shoal Extension Project offshore works;

“Sheringham Shoal Extension Project offshore works” means—

- (a) in the event of scenario 1, scenario 2 or scenario 3, Work Nos. 1A to 7A and any authorised development associated with those works; or
- (b) in the event of scenario 4, Work Nos. 1A, 2A, the integrated offshore works and any other authorised development associated with those works;

“Sheringham Shoal Extension Project onshore works” means—

- (a) in the event of scenario 1 or scenario 2, Work Nos. 8A to 22A and any other authorised development associated with those works; or
- (b) in the event of scenario 3, Work Nos. 8A to 14A, the scenario 3 integrated onshore works, 18A to 22A and any other authorised development associated with those works; or
- (c) in the event of scenario 4, Work Nos. 10A, 11A, 13A, 14A, the scenario 4 integrated onshore works, 18A to 22A and any other authorised development associated with any of those works;

“statutory historic body” means Historic England or its successor in function;

“statutory nature conservation body” means an organisation charged by the government with advising on nature conservation matters;

“suction bucket” means a steel cylindrical structure attached to the legs of a jacket or monopile foundation which partially or fully penetrates the seabed and remains in place using its own weight and hydrostatic pressure differential;

“Trinity House” means the Corporation of Trinity House of Deptford Strond;

“UKHO” means the United Kingdom Hydrographic Office of Admiralty Way, Taunton, Somerset, TA1 2DN;

“undertaker” means Dudgeon Extension Limited, company number 12148301, whose registered office is at 1 Kingdom Street, London W2 6BD;

“VHF” means very high frequency;

“vessel” means every description of vessel, however propelled or moved, and includes a non-displacement craft, a personal watercraft, a seaplane on the surface of the water, a hydrofoil vessel, a hovercraft or any other amphibious vehicle and any other thing constructed or adapted for movement through, in, on or over water and which is at the time in, on or over water;

“wind turbine generator” means a structure comprising a tower, a rotor with three blades connected at the hub, a nacelle and ancillary electrical and other equipment which may include J-tubes, transition piece, access and rest platforms, access ladders, boat access systems, corrosion protection systems, fenders and maintenance equipment, helicopter landing facilities and other associated equipment, fixed to a foundation;

“works plans” means the works plans (offshore) and the works plans (onshore);

“works plans (offshore)” means the plans certified as the works plans (offshore) by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order; and

“works plans (onshore)” means the plans certified as the works plans (onshore) by the Secretary of State under article 37 (certification of documents and plans, etc.) of the Order.

(2) In this marine licence, a reference to any statute, order, regulation or similar instrument is a reference to a statute, order, regulation or instrument as amended by any subsequent statute, order, regulation or instrument or as contained in any subsequent re-enactment.

(3) In this marine licence, unless otherwise indicated—

(a) all times are Greenwich Mean Time (“GMT”);

(b) all coordinates are latitude and longitude degrees and minutes to two decimal places.

(4) Unless otherwise stated or agreed with the MMO, all submissions, notifications and communications must be sent by the undertaker to the MMO using MCMS. Except where otherwise notified in writing by the relevant organisation, the addresses for correspondence for the purposes of this marine licence are—

(a) Historic England

Brooklands

24 Brooklands Avenue

Cambridge

CB2 8BU

Tel: 01223 582749

Email: eastofengland@historicengland.org.uk

(b) Marine Management Organisation

Marine Licensing Team

Lancaster House

Hampshire Court

Newcastle upon Tyne

NE4 7YH

Email: marine.consents@marinemanagement.org.uk

Tel: 0300 123 1032

(c) Marine Management Organisation (local office)

Lowestoft Office

Pakefield Road

Lowestoft

Suffolk

NR33 0HT

Email: lowestoft@marinemanagement.org.uk

Tel: 02080266094

- (d) Marine Management Organisation
Marine Pollution Response Team
Tel. (during office hours): 0300 200 2024,
Tel. (outside office hours): 07770 977 825 or 0845 051 8486
Email: dispersants@marinemanagement.org.uk
- (e) Maritime and Coastguard Agency
UK Technical Services Navigation
Spring Place
105 Commercial Road
Southampton
SO15 1EG
Tel: 020 3817 2554
- (f) Natural England
Foss House
Kings Pool
1-2 Peasholme Green
York
YO1 7PX
Tel: 0300 060 4911
- (g) Trinity House
Tower Hill
London
EC3N 4DH
Tel: 020 7481 6900
- (h) United Kingdom Hydrographic Office
Admiralty Way
Taunton
Somerset
TA1 2DN
Tel: 01823 337 900

Details of licensed marine activities

2. Subject to the conditions this marine licence authorises the undertaker (and any agent or contractor acting on their behalf) to carry out the following licensable marine activities under section 66(1) (licensable marine activities) of the 2009 Act—

- (a) the deposit at sea of the substances and objects specified in paragraph 4 below;
- (b) the construction of works in or over the sea or on or under the seabed;
- (c) dredging for the purposes of seabed preparation for foundation works or cable works;
- (d) the removal of sediment samples for the purposes of informing environmental monitoring under this marine licence during pre-construction, construction and operation;
- (e) site clearance and preparation works including debris, boulder clearance and the removal of out of service cables and static fishing equipment; and
- (f) the disposal of up to 145,325 cubic metres of inert material of natural origin within the Order limits produced during construction drilling or seabed preparation for foundation

works and cable works and boulder clearance works at disposal site references to be provided to the MMO within the Order limits seaward of MHWS.

3. Such activities are authorised in relation to the construction, maintenance and operation of—

Work No. 3B—in the event of scenario 1, scenario 2 or scenario 3, an offshore substation platform fixed to the seabed by either piled jacket or suction bucket jacket foundations within the area shown on the works plans; or

Work No. 3C—in the event of scenario 4, an integrated offshore substation platform fixed to the seabed by either piled jacket or suction bucket jacket foundations within the area shown on the works plans;

Work No. 4B—in the event of scenario 1, scenario 2 or scenario 3—

- (a) interlink cables between DEP North and DEP South within the areas shown on the works plans; and
- (b) HVAC subsea export cables between Work No. 3B and Work No. 5B along routes within the area shown on the works plans including cable protection and one or more cable crossings; or

Work No. 4C— in the event of scenario 4—

- (c) interlink cables between DEP North and Work No. 3C and DEP South and Work No. 3C; and
- (d) HVAC subsea export cables between Work No. 3C and Work No. 5C along routes within the area shown on the works plans including cable protection and one or more cable crossings;

Work No. 5B— in the event of scenario 1, scenario 2 or scenario 3, HVAC subsea export cables between Work No. 4B and Work No. 7B along routes within the area shown on the works plans including cable protection and one or more cable crossings; or

Work No. 5C— in the event of scenario 4, HVAC subsea export cables between Work No. 4C and Work No. 7C along routes within the area shown on the works plans including cable protection and one or more cable crossings;

Work No. 6B— in the event of scenario 1, scenario 2 or scenario 3, a temporary work area for vessels to carry out intrusive activities and non-intrusive activities alongside Work Nos. 1B, 2B, 3B, 4B and 5B; or

Work No. 6C— in the event of scenario 4, a temporary work area for vessels to carry out intrusive activities and non-intrusive activities alongside Work Nos. 1B, 2B, 3C, 4C and 5C;

Work No. 7B— in the event of scenario 1, scenario 2 or scenario 3, landfall connection works between Work No. 5B and Work No. 8B comprising of a cable circuit and ducts seaward of MHWS within the area shown on the works plans; or

Work No. 7C— in the event of scenario 4, landfall connection works between Work No. 5C and Work No. 8C comprising of up to two cable circuits and ducts seaward of MHWS within the area shown on the works plans;

In connection with such Work Nos. 3A to 7A or Work Nos. 3C to 7C and to the extent that they do not otherwise form part of any such work, further associated development within the meaning of section 115(2) (development for which development consent may be granted) of the 2008 Act comprising such other works as may be necessary or expedient for the purposes of or in connection with the relevant part of the authorised project and which fall within the scope of the work assessed by the environmental statement and the provisions of this marine licence including—

- (a) scour protection around the foundations of the offshore structures;
- (b) cable protection measures such as the placement of rock and/or concrete mattresses, with or without frond devices;

- (c) the removal of material from the seabed required for the construction of Work Nos. 3B to 5B and 7B in scenario 1, 2 or 3 or 3C to 5C and 7C in scenario 4 and the disposal of inert material of natural origin within the Order limits produced during construction drilling, seabed preparation for foundation works, cable installation preparation such as sandwave clearance, boulder clearance and pre-trenching and excavation of horizontal directional drilling exit pits;
- (d) temporary landing places, moorings or other means of accommodating vessels in the construction or maintenance of the authorised project;
- (e) removal of static fishing equipment;
- (f) beacons, fenders and other navigational warning or ship impact protection works;
- (g) disposal of drill arisings in connection with any foundation drilling up to a total of 425 cubic metres; and
- (h) temporary deposit and removal of monitoring equipment.

4. The substances and objects authorised for deposit at sea are—

- (a) iron, steel, copper and aluminium;
- (b) stone and rock;
- (c) concrete and grout;
- (d) sand and gravel;
- (e) plastic and synthetic;
- (f) material extracted from within the Order limits during construction drilling or seabed preparation for foundation works and cable sandwave preparation works; and
- (g) marine coatings, other chemicals and timber.

5. The grid coordinates for that part of the authorised project comprising Work Nos. 3B, 4B, 5B and 7B are specified below—

<i>Point ID</i>	<i>Latitude (DMS)</i>	<i>Longitude (DMS)</i>
1	53° 20' 54,139" N	1° 24' 1,404" E
2	53° 20' 5,326" N	1° 24' 0,033" E
3	53° 19' 36,128" N	1° 24' 8,276" E
4	53° 19' 9,827" N	1° 24' 23,580" E
5	53° 18' 34,113" N	1° 25' 3,960" E
6	53° 18' 17,503" N	1° 25' 24,511" E
7	53° 18' 0,222" N	1° 25' 39,259" E
8	53° 17' 15,148" N	1° 26' 5,612" E
9	53° 17' 35,036" N	1° 25' 24,340" E
10	53° 17' 54,920" N	1° 24' 43,056" E
11	53° 18' 14,801" N	1° 24' 1,762" E
12	53° 18' 34,677" N	1° 23' 20,458" E
13	53° 18' 35,113" N	1° 22' 55,059" E
14	53° 18' 9,353" N	1° 22' 14,077" E
15	53° 18' 55,523" N	1° 20' 33,698" E
16	53° 18' 18,216" N	1° 19' 28,603" E
17	53° 18' 23,044" N	1° 19' 18,170" E
18	53° 16' 40,497" N	1° 19' 9,998" E
19	53° 15' 41,443" N	1° 19' 5,297" E
20	53° 12' 35,764" N	1° 25' 45,404" E
21	53° 14' 5,405" N	1° 25' 52,576" E
22	53° 13' 44,764" N	1° 27' 26,148" E
23	53° 13' 21,538" N	1° 28' 1,214" E

24	53° 12' 58,309" N	1° 28' 36,270" E
25	53° 12' 35,077" N	1° 29' 11,315" E
26	53° 12' 11,842" N	1° 29' 46,349" E
27	53° 11' 48,603" N	1° 30' 21,373" E
28	53° 11' 25,362" N	1° 30' 56,387" E
29	53° 11' 2,118" N	1° 31' 31,390" E
30	53° 10' 38,872" N	1° 32' 6,382" E
31	53° 10' 16,470" N	1° 31' 10,439" E
32	53° 9' 54,062" N	1° 30' 14,512" E
33	53° 9' 31,646" N	1° 29' 18,602" E
34	53° 9' 9,223" N	1° 28' 22,708" E
35	53° 9' 18,541" N	1° 27' 23,002" E
36	53° 9' 42,205" N	1° 26' 28,216" E
37	53° 10' 5,861" N	1° 25' 33,413" E
38	53° 12' 11,085" N	1° 25' 43,428" E
39	53° 12' 13,889" N	1° 25' 43,653" E
40	53° 12' 22,727" N	1° 25' 3,043" E
41	53° 12' 46,914" N	1° 24' 11,010" E
42	53° 13' 11,094" N	1° 23' 18,961" E
43	53° 13' 35,269" N	1° 22' 26,895" E
44	53° 13' 59,436" N	1° 21' 34,813" E
45	53° 13' 59,487" N	1° 21' 34,662" E
46	53° 13' 59,504" N	1° 21' 34,593" E
47	53° 13' 59,528" N	1° 21' 34,484" E
48	53° 13' 59,555" N	1° 21' 34,337" E
49	53° 13' 59,614" N	1° 21' 33,969" E
50	53° 13' 59,678" N	1° 21' 33,512" E
51	53° 13' 59,814" N	1° 21' 32,501" E
52	53° 13' 59,897" N	1° 21' 31,942" E
53	53° 13' 59,950" N	1° 21' 31,621" E
54	53° 14' 0,013" N	1° 21' 31,287" E
55	53° 14' 0,091" N	1° 21' 30,923" E
56	53° 14' 0,192" N	1° 21' 30,532" E
57	53° 14' 0,314" N	1° 21' 30,139" E
58	53° 14' 0,438" N	1° 21' 29,791" E
59	53° 14' 0,558" N	1° 21' 29,485" E
60	53° 14' 0,675" N	1° 21' 29,208" E
61	53° 14' 20,752" N	1° 20' 46,650" E
62	53° 14' 40,825" N	1° 20' 4,081" E
63	53° 15' 0,894" N	1° 19' 21,501" E
64	53° 15' 20,958" N	1° 18' 38,910" E
65	53° 15' 21,011" N	1° 18' 38,796" E
66	53° 15' 21,067" N	1° 18' 38,677" E
67	53° 15' 21,123" N	1° 18' 38,558" E
68	53° 15' 21,175" N	1° 18' 38,448" E
69	53° 15' 21,185" N	1° 18' 38,428" E
70	53° 15' 21,236" N	1° 18' 38,321" E
71	53° 15' 21,293" N	1° 18' 38,203" E
72	53° 15' 21,350" N	1° 18' 38,085" E
73	53° 15' 21,407" N	1° 18' 37,968" E

74	53° 15' 21,465" N	1° 18' 37,851" E
75	53° 15' 21,523" N	1° 18' 37,734" E
76	53° 15' 21,581" N	1° 18' 37,618" E
77	53° 15' 21,639" N	1° 18' 37,502" E
78	53° 15' 21,698" N	1° 18' 37,386" E
79	53° 15' 21,756" N	1° 18' 37,271" E
80	53° 15' 21,815" N	1° 18' 37,156" E
81	53° 15' 21,875" N	1° 18' 37,041" E
82	53° 15' 21,934" N	1° 18' 36,927" E
83	53° 15' 21,994" N	1° 18' 36,813" E
84	53° 15' 22,054" N	1° 18' 36,699" E
85	53° 15' 22,114" N	1° 18' 36,586" E
86	53° 15' 22,175" N	1° 18' 36,473" E
87	53° 15' 22,236" N	1° 18' 36,361" E
88	53° 15' 22,297" N	1° 18' 36,249" E
89	53° 15' 22,358" N	1° 18' 36,137" E
90	53° 15' 22,414" N	1° 18' 36,035" E
91	53° 15' 22,425" N	1° 18' 36,015" E
92	53° 15' 22,481" N	1° 18' 35,914" E
93	53° 15' 22,543" N	1° 18' 35,803" E
94	53° 15' 22,605" N	1° 18' 35,693" E
95	53° 15' 22,667" N	1° 18' 35,583" E
96	53° 15' 22,730" N	1° 18' 35,474" E
97	53° 15' 22,793" N	1° 18' 35,364" E
98	53° 15' 22,856" N	1° 18' 35,255" E
99	53° 15' 22,919" N	1° 18' 35,147" E
100	53° 15' 22,983" N	1° 18' 35,039" E
101	53° 15' 23,046" N	1° 18' 34,931" E
102	53° 15' 23,110" N	1° 18' 34,823" E
103	53° 15' 23,174" N	1° 18' 34,716" E
104	53° 15' 23,239" N	1° 18' 34,610" E
105	53° 15' 23,304" N	1° 18' 34,504" E
106	53° 15' 23,368" N	1° 18' 34,398" E
107	53° 15' 23,433" N	1° 18' 34,292" E
108	53° 15' 23,499" N	1° 18' 34,187" E
109	53° 15' 23,564" N	1° 18' 34,082" E
110	53° 15' 23,630" N	1° 18' 33,978" E
111	53° 15' 23,690" N	1° 18' 33,884" E
112	53° 15' 23,701" N	1° 18' 33,865" E
113	53° 15' 23,762" N	1° 18' 33,770" E
114	53° 15' 23,829" N	1° 18' 33,667" E
115	53° 15' 23,895" N	1° 18' 33,564" E
116	53° 15' 23,962" N	1° 18' 33,462" E
117	53° 15' 24,029" N	1° 18' 33,360" E
118	53° 15' 24,096" N	1° 18' 33,258" E
119	53° 15' 24,164" N	1° 18' 33,157" E
120	53° 15' 24,232" N	1° 18' 33,056" E
121	53° 15' 24,299" N	1° 18' 32,956" E
122	53° 15' 24,368" N	1° 18' 32,855" E
123	53° 15' 24,436" N	1° 18' 32,756" E

124	53° 15' 24,504" N	1° 18' 32,656" E
125	53° 15' 24,573" N	1° 18' 32,558" E
126	53° 15' 24,642" N	1° 18' 32,459" E
127	53° 15' 24,711" N	1° 18' 32,361" E
128	53° 15' 24,781" N	1° 18' 32,263" E
129	53° 15' 24,850" N	1° 18' 32,166" E
130	53° 15' 24,920" N	1° 18' 32,069" E
131	53° 15' 24,990" N	1° 18' 31,973" E
132	53° 15' 25,060" N	1° 18' 31,877" E
133	53° 15' 25,124" N	1° 18' 31,790" E
134	53° 15' 25,135" N	1° 18' 31,775" E
135	53° 15' 25,201" N	1° 18' 31,686" E
136	53° 15' 25,272" N	1° 18' 31,591" E
137	53° 15' 25,343" N	1° 18' 31,497" E
138	53° 15' 25,414" N	1° 18' 31,403" E
139	53° 15' 25,485" N	1° 18' 31,309" E
140	53° 15' 25,557" N	1° 18' 31,216" E
141	53° 15' 25,629" N	1° 18' 31,124" E
142	53° 15' 25,701" N	1° 18' 31,031" E
143	53° 15' 25,773" N	1° 18' 30,939" E
144	53° 15' 25,845" N	1° 18' 30,848" E
145	53° 15' 25,918" N	1° 18' 30,757" E
146	53° 15' 25,990" N	1° 18' 30,666" E
147	53° 15' 26,063" N	1° 18' 30,576" E
148	53° 15' 26,136" N	1° 18' 30,486" E
149	53° 15' 26,210" N	1° 18' 30,397" E
150	53° 15' 26,283" N	1° 18' 30,308" E
151	53° 15' 26,357" N	1° 18' 30,220" E
152	53° 15' 26,431" N	1° 18' 30,132" E
153	53° 15' 26,505" N	1° 18' 30,044" E
154	53° 15' 26,579" N	1° 18' 29,957" E
155	53° 15' 26,654" N	1° 18' 29,870" E
156	53° 15' 26,728" N	1° 18' 29,784" E
157	53° 15' 26,803" N	1° 18' 29,698" E
158	53° 15' 26,878" N	1° 18' 29,613" E
159	53° 15' 26,953" N	1° 18' 29,528" E
160	53° 15' 27,028" N	1° 18' 29,443" E
161	53° 15' 27,104" N	1° 18' 29,359" E
162	53° 15' 27,179" N	1° 18' 29,276" E
163	53° 15' 27,255" N	1° 18' 29,192" E
164	53° 15' 27,331" N	1° 18' 29,110" E
165	53° 15' 27,407" N	1° 18' 29,027" E
166	53° 15' 27,484" N	1° 18' 28,945" E
167	53° 15' 27,560" N	1° 18' 28,864" E
168	53° 15' 27,637" N	1° 18' 28,783" E
169	53° 15' 27,714" N	1° 18' 28,702" E
170	53° 15' 27,791" N	1° 18' 28,622" E
171	53° 15' 27,868" N	1° 18' 28,543" E
172	53° 15' 27,945" N	1° 18' 28,464" E
173	53° 15' 28,023" N	1° 18' 28,385" E

174	53° 15' 28,101" N	1° 18' 28,307" E
175	53° 15' 28,178" N	1° 18' 28,229" E
176	53° 15' 28,252" N	1° 18' 28,156" E
177	53° 15' 28,264" N	1° 18' 28,144" E
178	53° 15' 28,335" N	1° 18' 28,075" E
179	53° 15' 28,413" N	1° 18' 27,998" E
180	53° 15' 28,491" N	1° 18' 27,922" E
181	53° 15' 28,570" N	1° 18' 27,847" E
182	53° 15' 28,649" N	1° 18' 27,772" E
183	53° 15' 28,728" N	1° 18' 27,697" E
184	53° 15' 28,807" N	1° 18' 27,623" E
185	53° 15' 28,886" N	1° 18' 27,549" E
186	53° 15' 28,966" N	1° 18' 27,476" E
187	53° 15' 29,045" N	1° 18' 27,403" E
188	53° 15' 29,125" N	1° 18' 27,331" E
189	53° 15' 29,205" N	1° 18' 27,259" E
190	53° 15' 29,285" N	1° 18' 27,188" E
191	53° 15' 29,365" N	1° 18' 27,117" E
192	53° 15' 29,446" N	1° 18' 27,046" E
193	53° 15' 29,526" N	1° 18' 26,976" E
194	53° 15',29,607" N	1° 18' 26,907" E
195	53° 15' 29,688" N	1° 18' 26,838" E
196	53° 15' 29,769" N	1° 18' 26,769" E
197	53° 15' 29,850" N	1° 18' 26,701" E
198	53° 15' 29,925" N	1° 18' 26,639" E
199	53° 15' 29,939" N	1° 18' 26,628" E
200	53° 15',30,012" N	1° 18' 26,567" E
201	53° 15' 30,094" N	1° 18' 26,500" E
202	53° 15' 30,176" N	1° 18' 26,434" E
203	53° 15' 30,257" N	1° 18' 26,368" E
204	53° 15' 30,339" N	1° 18' 26,303" E
205	53° 15' 30,421" N	1° 18' 26,238" E
206	53° 15' 30,504" N	1° 18' 26,174" E
207	53° 15' 30,586" N	1° 18' 26,110" E
208	53° 15' 30,668" N	1° 18' 26,047" E
209	53° 15' 30,751" N	1° 18' 25,984" E
210	53° 15' 30,834" N	1° 18' 25,922" E
211	53° 15' 30,917" N	1° 18' 25,860" E
212	53° 15' 31,000" N	1° 18' 25,799" E
213	53° 15' 31,083" N	1° 18' 25,738" E
214	53° 15' 31,166" N	1° 18' 25,678" E
215	53° 15' 31,249" N	1° 18' 25,618" E
216	53° 15' 31,333" N	1° 18' 25,558" E
217	53° 15' 31,416" N	1° 18' 25,500" E
218	53° 15' 31,500" N	1° 18' 25,441" E
219	53° 15' 31,584" N	1° 18' 25,383" E
220	53° 15' 31,660" N	1° 18' 25,331" E
221	53° 15' 31,676" N	1° 18' 25,320" E
222	53° 15' 31,752" N	1° 18' 25,269" E
223	53° 15' 31,836" N	1° 18' 25,212" E

224	53° 15' 31,921" N	1° 18' 25,156" E
225	53° 15' 32,005" N	1° 18' 25,101" E
226	53° 15' 32,090" N	1° 18' 25,046" E
227	53° 15' 32,174" N	1° 18' 24,992" E
228	53° 15' 32,259" N	1° 18' 24,938" E
229	53° 15' 32,344" N	1° 18' 24,884" E
230	53° 15' 32,429" N	1° 18' 24,831" E
231	53° 15' 32,514" N	1° 18' 24,779" E
232	53° 15' 32,600" N	1° 18' 24,727" E
233	53° 15' 32,685" N	1° 18' 24,675" E
234	53° 15' 32,770" N	1° 18' 24,624" E
235	53° 15' 32,856" N	1° 18' 24,574" E
236	53° 15' 32,942" N	1° 18' 24,524" E
237	53° 15' 33,027" N	1° 18' 24,474" E
238	53° 15' 33,113" N	1° 18' 24,425" E
239	53° 15' 33,199" N	1° 18' 24,377" E
240	53° 15' 33,285" N	1° 18' 24,329" E
241	53° 15' 33,364" N	1° 18' 24,286" E
242	53° 15' 33,379" N	1° 18' 24,278" E
243	53° 15' 33,458" N	1° 18' 24,234" E
244	53° 15' 33,544" N	1° 18' 24,188" E
245	53° 15' 33,631" N	1° 18' 24,142" E
246	53° 15' 33,717" N	1° 18' 24,097" E
247	53° 15' 33,804" N	1° 18' 24,052" E
248	53° 15' 33,891" N	1° 18' 24,007" E
249	53° 15' 33,978" N	1° 18' 23,963" E
250	53° 15' 34,065" N	1° 18' 23,920" E
251	53° 15' 34,152" N	1° 18' 23,877" E
252	53° 15' 34,239" N	1° 18' 23,835" E
253	53° 15' 34,326" N	1° 18' 23,793" E
254	53° 15' 34,413" N	1° 18' 23,751" E
255	53° 15' 34,501" N	1° 18' 23,710" E
256	53° 15' 34,588" N	1° 18' 23,670" E
257	53° 15' 34,676" N	1° 18' 23,630" E
258	53° 15' 34,764" N	1° 18' 23,591" E
259	53° 15' 34,851" N	1° 18' 23,552" E
260	53° 15' 34,939" N	1° 18' 23,514" E
261	53° 15' 35,027" N	1° 18' 23,476" E
262	53° 15' 35,115" N	1° 18' 23,439" E
263	53° 15' 35,195" N	1° 18' 23,405" E
264	53° 15' 35,209" N	1° 18' 23,399" E
265	53° 15' 35,291" N	1° 18' 23,366" E
266	53° 15' 35,379" N	1° 18' 23,330" E
267	53° 15' 35,468" N	1° 18' 23,295" E
268	53° 15' 35,556" N	1° 18' 23,260" E
269	53° 15' 35,645" N	1° 18' 23,226" E
270	53° 15' 35,733" N	1° 18' 23,192" E
271	53° 15' 35,822" N	1° 18' 23,159" E
272	53° 15' 35,910" N	1° 18' 23,126" E
273	53° 15' 35,999" N	1° 18' 23,094" E

274	53° 15' 36,088" N	1° 18' 23,063" E
275	53° 15' 36,177" N	1° 18' 23,032" E
276	53° 15' 36,265" N	1° 18' 23,001" E
277	53° 15' 36,354" N	1° 18' 22,971" E
278	53° 15' 36,443" N	1° 18' 22,941" E
279	53° 15' 36,533" N	1° 18' 22,912" E
280	53° 15' 36,622" N	1° 18' 22,884" E
281	53° 15' 36,711" N	1° 18' 22,856" E
282	53° 15' 36,800" N	1° 18' 22,829" E
283	53° 15' 36,890" N	1° 18' 22,802" E
284	53° 15' 36,979" N	1° 18' 22,775" E
285	53° 15' 37,069" N	1° 18' 22,749" E
286	53° 15' 37,158" N	1° 18' 22,724" E
287	53° 15' 37,247" N	1° 18' 22,699" E
288	53° 15' 37,337" N	1° 18' 22,675" E
289	53° 15' 37,427" N	1° 18' 22,651" E
290	53° 15' 37,516" N	1° 18' 22,628" E
291	53° 15' 37,606" N	1° 18' 22,605" E
292	53° 15' 37,696" N	1° 18' 22,583" E
293	53° 15' 37,786" N	1° 18' 22,561" E
294	53° 15' 37,876" N	1° 18' 22,540" E
295	53° 15' 37,966" N	1° 18' 22,520" E
296	53° 15' 38,056" N	1° 18' 22,500" E
297	53° 15' 38,146" N	1° 18' 22,480" E
298	53° 15' 38,236" N	1° 18' 22,461" E
299	53° 15' 38,326" N	1° 18' 22,442" E
300	53° 15' 38,416" N	1° 18' 22,425" E
301	53° 15' 38,506" N	1° 18' 22,407" E
302	53° 15' 38,596" N	1° 18' 22,390" E
303	53° 15' 38,686" N	1° 18' 22,374" E
304	53° 15' 38,777" N	1° 18' 22,358" E
305	53° 15' 38,867" N	1° 18' 22,343" E
306	53° 15' 38,952" N	1° 18' 22,329" E
307	53° 15' 38,966" N	1° 18' 22,326" E
308	53° 15' 39,048" N	1° 18' 22,313" E
309	53° 15' 39,138" N	1° 18' 22,300" E
310	53° 15' 39,229" N	1° 18' 22,286" E
311	53° 15' 39,319" N	1° 18' 22,274" E
312	53° 15' 39,410" N	1° 18' 22,262" E
313	53° 15' 39,500" N	1° 18' 22,250" E
314	53° 15' 39,591" N	1° 18' 22,239" E
315	53° 15' 39,681" N	1° 18' 22,228" E
316	53° 15' 39,772" N	1° 18' 22,218" E
317	53° 15' 39,862" N	1° 18' 22,209" E
318	53° 15' 39,953" N	1° 18' 22,200" E
319	53° 15' 40,044" N	1° 18' 22,191" E
320	53° 15' 40,134" N	1° 18' 22,183" E
321	53° 15' 40,225" N	1° 18' 22,176" E
322	53° 15' 40,316" N	1° 18' 22,169" E
323	53° 15' 40,406" N	1° 18' 22,163" E

324	53° 15' 40,497" N	1° 18' 22,157" E
325	53° 15' 40,588" N	1° 18' 22,152" E
326	53° 15' 40,678" N	1° 18' 22,147" E
327	53° 15' 40,769" N	1° 18' 22,143" E
328	53° 15' 40,853" N	1° 18' 22,139" E
329	53° 15' 40,868" N	1° 18' 22,139" E
330	53° 15' 40,951" N	1° 18' 22,136" E
331	53° 15' 41,041" N	1° 18' 22,133" E
332	53° 15' 41,132" N	1° 18' 22,131" E
333	53° 15' 41,223" N	1° 18' 22,129" E
334	53° 15' 41,314" N	1° 18' 22,128" E
335	53° 15' 41,405" N	1° 18' 22,128" E
336	53° 15' 41,495" N	1° 18' 22,128" E
337	53° 15' 41,586" N	1° 18' 22,128" E
338	53° 15' 41,677" N	1° 18' 22,130" E
339	53° 15' 41,768" N	1° 18' 22,131" E
340	53° 15' 41,858" N	1° 18' 22,133" E
341	53° 15' 41,949" N	1° 18' 22,136" E
342	53° 15' 42,040" N	1° 18' 22,139" E
343	53° 15' 42,131" N	1° 18' 22,143" E
344	53° 15' 42,221" N	1° 18' 22,147" E
345	53° 15' 42,312" N	1° 18' 22,152" E
346	53° 15' 42,403" N	1° 18' 22,157" E
347	53° 15' 42,494" N	1° 18' 22,163" E
348	53° 15' 42,584" N	1° 18' 22,170" E
349	53° 15' 42,671" N	1° 18' 22,176" E
350	53° 17' 29,099" N	1° 18' 30,623" E
351	53° 18' 17,849" N	1° 17' 51,100" E
352	53° 18' 52,654" N	1° 17' 33,836" E
353	53° 19' 27,459" N	1° 17' 16,563" E
354	53° 19' 41,748" N	1° 17' 0,577" E
355	53° 18' 56,531" N	1° 16' 15,330" E
356	53° 17' 53,698" N	1° 15' 55,514" E
357	53° 16' 50,863" N	1° 15' 35,713" E
358	53° 15' 48,027" N	1° 15' 15,928" E
359	53° 14' 45,190" N	1° 14' 56,158" E
360	53° 13' 42,353" N	1° 14' 36,404" E
361	53° 12' 39,514" N	1° 14' 16,665" E
362	53° 11' 36,675" N	1° 13' 56,942" E
363	53° 10' 33,834" N	1° 13' 37,234" E
364	53° 9' 56,800" N	1° 14' 32,527" E
365	53° 9' 35,524" N	1° 14' 21,148" E
366	53° 9' 4,437" N	1° 15' 9,684" E
367	53° 8' 33,344" N	1° 15' 58,201" E
368	53° 8' 2,245" N	1° 16' 46,699" E
369	53° 7' 31,141" N	1° 17' 35,177" E
370	53° 7' 12,187" N	1° 18' 5,637" E
371	53° 6' 40,142" N	1° 17' 46,074" E
372	53° 6' 8,096" N	1° 17' 26,519" E
373	53° 5' 53,359" N	1° 17' 17,530" E

374	53° 5' 36,048" N	1° 17' 6,972" E
375	53° 5' 4,000" N	1° 16' 47,433" E
376	53° 5' 3,998" N	1° 16' 47,439" E
377	53° 4' 48,834" N	1° 16' 40,042" E
378	53° 4' 23,756" N	1° 16' 27,812" E
379	53° 3' 39,216" N	1° 16' 5,715" E
380	53° 3' 4,285" N	1° 15' 45,012" E
381	53° 2' 42,819" N	1° 15' 34,383" E
382	53° 2' 18,678" N	1° 15' 22,981" E
383	53° 2' 4,608" N	1° 15' 14,913" E
384	53° 2' 1,090" N	1° 15' 12,896" E
385	53° 2' 0,211" N	1° 15' 12,392" E
386	53° 1' 59,991" N	1° 15' 12,266" E
387	53° 1' 59,771" N	1° 15' 12,140" E
388	53° 1' 59,331" N	1° 15' 11,888" E
389	53° 1' 57,573" N	1° 15' 10,879" E
390	53° 1' 50,538" N	1° 15' 6,846" E
391	53° 1' 36,320" N	1° 15' 7,829" E
392	53° 1' 32,765" N	1° 15' 8,074" E
393	53° 1' 31,876" N	1° 15' 8,136" E
394	53° 1' 31,432" N	1° 15' 8,167" E
395	53° 1' 31,321" N	1° 15' 8,174" E
396	53° 1' 31,210" N	1° 15' 8,182" E
397	53° 1' 30,988" N	1° 15' 8,197" E
398	53° 1' 29,210" N	1° 15' 8,320" E
399	53° 1' 22,101" N	1° 15' 8,812" E
400	53° 1' 9,264" N	1° 14' 55,002" E
401	53° 0' 53,523" N	1° 14' 34,350" E
402	53° 0' 37,631" N	1° 14' 15,360" E
403	53° 0' 19,626" N	1° 13' 59,138" E
404	53° 0' 4,888" N	1° 13' 45,462" E
405	52° 59' 45,135" N	1° 13' 20,396" E
406	52° 59' 8,327" N	1° 12' 31,064" E
407	52° 58' 31,514" N	1° 11' 41,754" E
408	52° 58' 3,439" N	1° 11' 1,017" E
409	52° 57' 35,361" N	1° 10' 20,295" E
410	52° 56' 54,694" N	1° 9' 27,639" E
411	52° 56' 54,694" N	1° 9' 27,604" E
412	52° 56' 54,690" N	1° 9' 27,438" E
413	52° 56' 54,680" N	1° 9' 27,273" E
414	52° 56' 54,664" N	1° 9' 27,109" E
415	52° 56' 54,643" N	1° 9' 26,945" E
416	52° 56' 54,630" N	1° 9' 26,860" E
417	52° 56' 54,631" N	1° 9' 26,827" E
418	52° 56' 54,664" N	1° 9' 25,966" E
419	52° 56' 54,694" N	1° 9' 25,197" E
420	52° 56' 54,708" N	1° 9' 24,908" E
421	52° 56' 54,755" N	1° 9' 24,108" E
422	52° 56' 54,825" N	1° 9' 22,821" E
423	52° 56' 54,902" N	1° 9' 21,380" E

424	52° 56' 54,954" N	1° 9' 20,542" E
425	52° 56' 54,988" N	1° 9' 19,874" E
426	52° 56' 55,005" N	1° 9' 19,463" E
427	52° 56' 55,021" N	1° 9' 19,228" E
428	52° 56' 55,096" N	1° 9' 18,274" E
429	52° 56' 55,133" N	1° 9' 17,756" E
430	52° 56' 55,159" N	1° 9' 17,538" E
431	52° 56' 55,187" N	1° 9' 17,240" E
432	52° 56' 55,258" N	1° 9' 16,558" E
433	52° 56' 55,336" N	1° 9' 15,883" E
434	52° 56' 55,442" N	1° 9' 14,936" E
435	52° 56' 55,566" N	1° 9' 13,609" E
436	52° 56' 55,689" N	1° 9' 12,143" E
437	52° 56' 55,724" N	1° 9' 11,700" E
438	52° 56' 55,761" N	1° 9' 11,231" E
439	52° 56' 55,789" N	1° 9' 10,675" E
440	52° 56' 55,816" N	1° 9' 10,210" E
441	52° 56' 55,838" N	1° 9' 9,767" E
442	52° 56' 55,855" N	1° 9' 9,204" E
443	52° 56' 55,878" N	1° 9' 8,627" E
444	52° 56' 55,882" N	1° 9' 8,037" E
445	52° 56' 55,885" N	1° 9' 7,479" E
446	52° 56' 55,894" N	1° 9' 6,938" E
447	52° 56' 55,906" N	1° 9' 6,520" E
448	52° 56' 55,940" N	1° 9' 5,589" E
449	52° 56' 55,960" N	1° 9' 4,555" E
450	52° 56' 55,985" N	1° 9' 3,908" E
451	52° 56' 56,007" N	1° 9' 3,035" E
452	52° 56' 56,043" N	1° 9' 2,131" E
453	52° 56' 56,081" N	1° 9' 1,281" E
454	52° 56' 56,125" N	1° 9' 0,426" E
455	52° 56' 56,138" N	1° 9' 0,083" E
456	52° 56' 56,144" N	1° 9' 0,019" E
457	52° 56' 56,142" N	1° 8' 59,955" E
458	52° 56' 56,135" N	1° 8' 59,853" E
459	52° 56' 56,120" N	1° 8' 59,728" E
460	52° 56' 56,115" N	1° 8' 59,685" E
461	52° 56' 56,113" N	1° 8' 59,636" E
462	52° 56' 56,116" N	1° 8' 59,535" E
463	52° 56' 56,126" N	1° 8' 59,396" E
464	52° 56' 56,149" N	1° 8' 59,280" E
465	52° 56' 56,156" N	1° 8' 59,130" E
466	52° 56' 56,160" N	1° 8' 59,023" E
467	52° 56' 56,159" N	1° 8' 58,921" E
468	52° 56' 56,153" N	1° 8' 58,797" E
469	52° 56' 56,149" N	1° 8' 58,711" E
470	52° 56' 56,158" N	1° 8' 58,620" E
471	52° 56' 56,166" N	1° 8' 58,567" E
472	52° 56' 56,177" N	1° 8' 58,514" E
473	52° 56' 56,199" N	1° 8' 58,436" E

474	52° 56' 56,210" N	1° 8' 58,388" E
475	52° 56' 56,221" N	1° 8' 58,336" E
476	52° 56' 56,229" N	1° 8' 58,283" E
477	52° 56' 56,234" N	1° 8' 58,224" E
478	52° 56' 56,236" N	1° 8' 58,154" E
479	52° 56' 56,232" N	1° 8' 58,084" E
480	52° 56' 56,213" N	1° 8' 57,949" E
481	52° 56' 56,196" N	1° 8' 57,851" E
482	52° 56' 56,191" N	1° 8' 57,792" E
483	52° 56' 56,190" N	1° 8' 57,727" E
484	52° 56' 56,192" N	1° 8' 57,652" E
485	52° 56' 56,200" N	1° 8' 57,578" E
486	52° 56' 56,212" N	1° 8' 57,482" E
487	52° 56' 56,230" N	1° 8' 57,392" E
488	52° 56' 56,244" N	1° 8' 57,351" E
489	52° 56' 56,255" N	1° 8' 57,303" E
490	52° 56' 56,267" N	1° 8' 57,218" E
491	52° 56' 56,273" N	1° 8' 57,122" E
492	52° 56' 56,271" N	1° 8' 56,950" E
493	52° 56' 56,256" N	1° 8' 56,751" E
494	52° 56' 56,247" N	1° 8' 56,601" E
495	52° 56' 56,242" N	1° 8' 56,536" E
496	52° 56' 56,244" N	1° 8' 56,472" E
497	52° 56' 56,260" N	1° 8' 56,361" E
498	52° 56' 56,274" N	1° 8' 56,303" E
499	52° 56' 56,285" N	1° 8' 56,239" E
500	52° 56' 56,307" N	1° 8' 56,021" E
501	52° 56' 56,320" N	1° 8' 55,647" E
502	52° 56' 56,327" N	1° 8' 55,080" E
503	52° 56' 56,337" N	1° 8' 54,834" E
504	52° 56' 56,357" N	1° 8' 54,434" E
505	52° 56' 56,378" N	1° 8' 53,980" E
506	52° 56' 56,405" N	1° 8' 53,527" E
507	52° 56' 56,442" N	1° 8' 52,977" E
508	52° 56' 56,474" N	1° 8' 52,583" E
509	52° 56' 56,485" N	1° 8' 52,402" E
510	52° 56' 56,493" N	1° 8' 52,215" E
511	52° 56' 56,496" N	1° 8' 52,018" E
512	52° 56' 56,571" N	1° 8' 50,912" E
513	52° 56' 56,607" N	1° 8' 50,422" E
514	52° 56' 56,644" N	1° 8' 49,931" E
515	52° 56' 56,682" N	1° 8' 49,441" E
516	52° 56' 56,719" N	1° 8' 48,951" E
517	52° 56' 56,755" N	1° 8' 48,460" E
518	52° 56' 56,778" N	1° 8' 48,023" E
519	52° 56' 56,793" N	1° 8' 47,584" E
520	52° 56' 56,804" N	1° 8' 47,144" E
521	52° 56' 56,821" N	1° 8' 46,705" E
522	52° 56' 56,849" N	1° 8' 46,269" E
523	52° 56' 57,031" N	1° 8' 44,094" E

524	52° 56' 57,117" N	1° 8' 43,069" E
525	52° 56' 57,183" N	1° 8' 42,274" E
526	52° 56' 57,208" N	1° 8' 42,038" E
527	52° 56' 57,216" N	1° 8' 41,942" E
528	52° 56' 57,222" N	1° 8' 41,846" E
529	52° 56' 57,222" N	1° 8' 41,826" E
530	52° 56' 57,242" N	1° 8' 41,608" E
531	52° 56' 57,243" N	1° 8' 41,601" E
532	52° 56' 57,276" N	1° 8' 41,405" E
533	52° 56' 57,304" N	1° 8' 41,209" E
534	52° 56' 57,335" N	1° 8' 40,949" E
535	52° 56' 57,367" N	1° 8' 40,652" E
536	52° 56' 57,390" N	1° 8' 40,348" E
537	52° 56' 57,409" N	1° 8' 40,076" E
538	52° 56' 57,426" N	1° 8' 39,917" E
539	52° 56' 57,434" N	1° 8' 39,811" E
540	52° 56' 57,442" N	1° 8' 39,576" E
541	52° 56' 57,443" N	1° 8' 39,487" E
542	52° 56' 57,471" N	1° 8' 39,155" E
543	52° 56' 57,517" N	1° 8' 38,578" E
544	52° 56' 57,560" N	1° 8' 37,999" E
545	52° 56' 57,601" N	1° 8' 37,421" E
546	52° 56' 57,628" N	1° 8' 36,995" E
547	52° 56' 57,651" N	1° 8' 36,569" E
548	52° 56' 57,673" N	1° 8' 36,143" E
549	52° 56' 57,696" N	1° 8' 35,716" E
550	52° 56' 57,723" N	1° 8' 35,291" E
551	52° 56' 57,756" N	1° 8' 34,877" E
552	52° 56' 57,791" N	1° 8' 34,520" E
553	52° 56' 57,805" N	1° 8' 34,405" E
554	52° 56' 57,833" N	1° 8' 34,187" E
555	52° 56' 57,854" N	1° 8' 33,996" E
556	52° 56' 57,876" N	1° 8' 33,767" E
557	52° 56' 57,909" N	1° 8' 33,475" E
558	52° 56' 57,937" N	1° 8' 33,262" E
559	52° 56' 57,958" N	1° 8' 33,060" E
560	52° 56' 57,974" N	1° 8' 32,825" E
561	52° 56' 57,988" N	1° 8' 32,547" E
562	52° 56' 57,996" N	1° 8' 32,371" E
563	52° 56' 58,009" N	1° 8' 32,099" E
564	52° 56' 58,026" N	1° 8' 31,698" E
565	52° 56' 58,053" N	1° 8' 31,164" E
566	52° 56' 58,091" N	1° 8' 30,706" E
567	52° 56' 58,128" N	1° 8' 30,178" E
568	52° 56' 58,173" N	1° 8' 29,592" E
569	52° 56' 58,219" N	1° 8' 29,048" E
570	52° 56' 58,278" N	1° 8' 28,431" E
571	52° 56' 58,343" N	1° 8' 27,669" E
572	52° 56' 58,359" N	1° 8' 27,381" E
573	52° 56' 58,372" N	1° 8' 27,216" E

574	52° 56' 58,390" N	1° 8' 26,964" E
575	52° 56' 58,392" N	1° 8' 26,912" E
576	52° 56' 58,403" N	1° 8' 26,797" E
577	52° 56' 58,398" N	1° 8' 26,780" E
578	52° 56' 57,591" N	1° 8' 23,453" E
579	52° 56' 57,607" N	1° 8' 23,312" E
580	52° 56' 57,696" N	1° 8' 22,616" E
581	52° 56' 57,819" N	1° 8' 21,510" E
582	52° 56' 58,021" N	1° 8' 19,543" E
583	52° 56' 58,156" N	1° 8' 18,267" E
584	52° 56' 58,293" N	1° 8' 16,991" E
585	52° 56' 58,371" N	1° 8' 16,290" E
586	52° 56' 58,452" N	1° 8' 15,590" E
587	52° 56' 58,533" N	1° 8' 14,889" E
588	52° 56' 58,611" N	1° 8' 14,188" E
589	52° 56' 58,684" N	1° 8' 13,438" E
590	52° 56' 58,747" N	1° 8' 12,686" E
591	52° 56' 58,808" N	1° 8' 11,957" E
592	52° 56' 58,817" N	1° 8' 11,966" E
593	52° 56' 58,840" N	1° 8' 11,992" E
594	52° 56' 59,726" N	1° 8' 12,960" E
595	52° 57' 0,102" N	1° 8' 13,371" E
596	52° 57' 8,134" N	1° 8' 22,147" E
597	52° 57' 14,357" N	1° 8' 25,824" E
598	52° 57' 22,662" N	1° 8' 28,252" E
599	52° 57' 40,113" N	1° 8' 33,188" E
600	52° 57' 42,426" N	1° 8' 35,383" E
601	52° 57' 52,102" N	1° 8' 56,636" E
602	52° 58' 16,245" N	1° 10' 2,679" E
603	52° 58' 41,839" N	1° 10' 38,668" E
604	52° 59' 7,430" N	1° 11' 14,669" E
605	52° 59' 42,249" N	1° 12' 2,219" E
606	53° 0' 17,064" N	1° 12' 49,789" E
607	53° 0' 35,405" N	1° 13' 4,931" E
608	53° 0' 57,553" N	1° 13' 25,221" E
609	53° 1' 22,451" N	1° 13' 58,051" E
610	53° 1' 27,774" N	1° 14' 5,055" E
611	53° 1' 30,435" N	1° 14' 8,557" E
612	53° 1' 31,101" N	1° 14' 9,432" E
613	53° 1' 31,267" N	1° 14' 9,651" E
614	53° 1' 31,350" N	1° 14' 9,760" E
615	53° 1' 31,433" N	1° 14' 9,870" E
616	53° 1' 31,766" N	1° 14' 10,308" E
617	53° 1' 33,097" N	1° 14' 12,058" E
618	53° 1' 43,742" N	1° 14' 26,066" E
619	53° 1' 54,320" N	1° 14' 36,758" E
620	53° 1' 59,354" N	1° 14' 39,959" E
621	53° 1' 59,983" N	1° 14' 40,359" E
622	53° 2' 0,613" N	1° 14' 40,760" E
623	53° 2' 1,871" N	1° 14' 41,560" E

624	53° 2' 4,388" N	1° 14' 43,161" E
625	53° 2' 14,457" N	1° 14' 49,564" E
626	53° 3' 4,871" N	1° 15' 12,274" E
627	53° 4' 0,089" N	1° 15' 35,690" E
628	53° 4' 23,250" N	1° 15' 46,786" E
629	53° 5' 0,996" N	1° 15' 11,113" E
630	53° 5' 20,705" N	1° 14' 48,183" E
631	53° 5' 33,957" N	1° 13' 54,955" E
632	53° 5' 47,202" N	1° 13' 1,718" E
633	53° 5' 47,266" N	1° 13' 1,677" E
634	53° 5' 47,540" N	1° 13' 1,498" E
635	53° 5' 47,545" N	1° 13' 1,495" E
636	53° 5' 50,444" N	1° 12' 59,604" E
637	53° 5' 50,506" N	1° 12' 59,565" E
638	53° 6' 19,018" N	1° 12' 40,975" E
639	53° 6' 19,097" N	1° 12' 40,924" E
640	53° 6' 43,080" N	1° 12' 25,287" E
641	53° 7' 12,739" N	1° 12' 5,962" E
642	53° 7' 42,397" N	1° 11' 46,630" E
643	53° 7' 49,968" N	1° 11' 41,694" E
644	53° 10' 14,683" N	1° 12' 33,700" E
645	53° 11' 24,043" N	1° 12' 55,421" E
646	53° 12' 33,402" N	1° 13' 17,161" E
647	53° 13' 42,760" N	1° 13' 38,920" E
648	53° 14' 52,117" N	1° 14' 0,698" E
649	53° 16' 1,472" N	1° 14' 22,495" E
650	53° 17' 10,827" N	1° 14' 44,310" E
651	53° 18' 20,180" N	1° 15' 6,145" E
652	53° 19' 29,532" N	1° 15' 27,998" E
653	53° 20' 0,390" N	1° 14' 40,388" E
654	53° 19' 31,548" N	1° 13' 30,141" E
655	53° 19' 2,699" N	1° 12' 19,932" E
656	53° 19' 34,347" N	1° 11' 47,739" E
657	53° 20' 5,992" N	1° 11' 15,533" E
658	53° 20' 37,635" N	1° 10' 43,313" E
659	53° 21' 9,275" N	1° 10' 11,081" E
660	53° 21' 9,340" N	1° 11' 6,237" E
661	53° 21' 9,399" N	1° 12' 1,393" E
662	53° 21' 9,451" N	1° 12' 56,550" E
663	53° 21' 9,495" N	1° 13' 51,706" E
664	53° 21' 9,533" N	1° 14' 46,863" E
665	53° 21' 9,563" N	1° 15' 42,020" E
666	53° 21' 9,584" N	1° 16' 30,130" E
667	53° 21' 9,602" N	1° 17' 32,335" E
668	53° 20' 46,340" N	1° 18' 7,238" E
669	53° 20' 58,886" N	1° 18' 37,507" E
670	53° 21' 16,936" N	1° 18' 58,324" E
671	53° 21' 24,406" N	1° 19' 46,805" E
672	53° 21' 27,180" N	1° 20' 4,816" E
673	53° 21' 37,414" N	1° 21' 11,318" E

674	53° 21' 47,638" N	1° 22' 17,828" E
675	53° 21' 57,851" N	1° 23' 24,348" E
676	53° 21' 25,995" N	1° 23' 42,880" E

6.The grid coordinates for that part of the authorised project comprising Work Nos. 3C, 4C, 5C and 7C are specified below—

<i>Point ID</i>	<i>Latitude</i>	<i>Longitude</i>
1	53° 20' 54,139" N	1° 24' 1,404" E
2	53° 20' 5,326" N	1° 24' 0,033" E
3	53° 19' 36,128" N	1° 24' 8,276" E
4	53° 19' 9,827" N	1° 24' 23,580" E
5	53° 18' 34,113" N	1° 25' 3,960" E
6	53° 18' 17,503" N	1° 25' 24,511" E
7	53° 18' 0,222" N	1° 25' 39,259" E
8	53° 17' 15,148" N	1° 26' 5,612" E
9	53° 17' 35,036" N	1° 25' 24,340" E
10	53° 17' 54,920" N	1° 24' 43,056" E
11	53° 18' 14,801" N	1° 24' 1,762" E
12	53° 18' 34,677" N	1° 23' 20,458" E
13	53° 18' 35,113" N	1° 22' 55,059" E
14	53° 18' 9,353" N	1° 22' 14,077" E
15	53° 18' 55,523" N	1° 20' 33,698" E
16	53° 18' 18,216" N	1° 19' 28,603" E
17	53° 18' 23,044" N	1° 19' 18,170" E
18	53° 16' 40,497" N	1° 19' 9,998" E
19	53° 17' 29,099" N	1° 18' 30,623" E
20	53° 18' 17,849" N	1° 17' 51,100" E
21	53° 18' 52,654" N	1° 17' 33,836" E
22	53° 19' 27,459" N	1° 17' 16,563" E
23	53° 19' 41,748" N	1° 17' 0,577" E
24	53° 18' 56,531" N	1° 16' 15,330" E
25	53° 17' 53,698" N	1° 15' 55,514" E
26	53° 16' 50,863" N	1° 15' 35,713" E
27	53° 15' 48,027" N	1° 15' 15,928" E
28	53° 14' 45,190" N	1° 14' 56,158" E
29	53° 13' 42,353" N	1° 14' 36,404" E
30	53° 12' 39,514" N	1° 14' 16,665" E
31	53° 11' 36,675" N	1° 13' 56,942" E
32	53° 10' 33,834" N	1° 13' 37,234" E
33	53° 9' 56,800" N	1° 14' 32,527" E
34	53° 10' 15,091" N	1° 15' 51,276" E
35	53° 10' 33,368" N	1° 17' 10,043" E
36	53° 10' 51,630" N	1° 18' 28,829" E
37	53° 11' 9,878" N	1° 19' 47,634" E
38	53° 11' 28,112" N	1° 21' 6,458" E
39	53° 11' 46,331" N	1° 22' 25,301" E
40	53° 12' 4,536" N	1° 23' 44,163" E
41	53° 12' 22,727" N	1° 25' 3,043" E
42	53° 12' 35,764" N	1° 25' 45,404" E
43	53° 14' 5,405" N	1° 25' 52,576" E

44	53° 13' 44,764" N	1° 27' 26,148" E
45	53° 13' 21,538" N	1° 28' 1,214" E
46	53° 12' 58,309" N	1° 28' 36,270" E
47	53° 12' 35,077" N	1° 29' 11,315" E
48	53° 12' 11,842" N	1° 29' 46,349" E
49	53° 11' 48,603" N	1° 30' 21,373" E
50	53° 11' 25,362" N	1° 30' 56,387" E
51	53° 11' 2,118" N	1° 31' 31,390" E
52	53° 10' 38,872" N	1° 32' 6,382" E
53	53° 10' 16,470" N	1° 31' 10,439" E
54	53° 9' 54,062" N	1° 30' 14,512" E
55	53° 9' 31,646" N	1° 29' 18,602" E
56	53° 9' 9,223" N	1° 28' 22,708" E
57	53° 9' 18,541" N	1° 27' 23,002" E
58	53° 9' 42,205" N	1° 26' 28,216" E
59	53° 10' 5,861" N	1° 25' 33,413" E
60	53° 12' 11,085" N	1° 25' 43,428" E
61	53° 12' 13,889" N	1° 25' 43,653" E
62	53° 12' 10,720" N	1° 25' 29,896" E
63	53° 11' 51,377" N	1° 24' 6,228" E
64	53° 11' 32,018" N	1° 22' 42,581" E
65	53° 11' 12,643" N	1° 21' 18,956" E
66	53° 10' 53,251" N	1° 19' 55,352" E
67	53° 10' 33,844" N	1° 18' 31,769" E
68	53° 10' 14,420" N	1° 17' 8,207" E
69	53° 9' 54,980" N	1° 15' 44,667" E
70	53° 9' 35,524" N	1° 14' 21,148" E
71	53° 9' 4,437" N	1° 15' 9,684" E
72	53° 8' 33,344" N	1° 15' 58,201" E
73	53° 8' 2,245" N	1° 16' 46,699" E
74	53° 7' 31,141" N	1° 17' 35,177" E
75	53° 7' 12,187" N	1° 18' 5,637" E
76	53° 6' 40,142" N	1° 17' 46,074" E
77	53° 6' 8,096" N	1° 17' 26,519" E
78	53° 5' 53,359" N	1° 17' 17,530" E
79	53° 5' 36,048" N	1° 17' 6,972" E
80	53° 5' 4,000" N	1° 16' 47,433" E
81	53° 5' 3,998" N	1° 16' 47,439" E
82	53° 4' 48,834" N	1° 16' 40,042" E
83	53° 4' 23,756" N	1° 16' 27,812" E
84	53° 3' 39,216" N	1° 16' 5,715" E
85	53° 3' 4,285" N	1° 15' 45,012" E
86	53° 2' 42,819" N	1° 15' 34,383" E
87	53° 2' 18,678" N	1° 15' 22,981" E
88	53° 2' 4,608" N	1° 15' 14,913" E
89	53° 2' 1,090" N	1° 15' 12,896" E
90	53° 2' 0,211" N	1° 15' 12,392" E
91	53° 1' 59,991" N	1° 15' 12,266" E
92	53° 1' 59,771" N	1° 15' 12,140" E
93	53° 1' 59,331" N	1° 15' 11,888" E

94	53° 1' 57,573" N	1° 15' 10,879" E
95	53° 1' 50,538" N	1° 15' 6,846" E
96	53° 1' 36,320" N	1° 15' 7,829" E
97	53° 1' 32,765" N	1° 15' 8,074" E
98	53° 1' 31,876" N	1° 15' 8,136" E
99	53° 1' 31,432" N	1° 15' 8,167" E
100	53° 1' 31,321" N	1° 15' 8,174" E
101	53° 1' 31,210" N	1° 15' 8,182" E
102	53° 1' 30,988" N	1° 15' 8,197" E
103	53° 1' 29,210" N	1° 15' 8,320" E
104	53° 1' 22,101" N	1° 15' 8,812" E
105	53° 1' 9,264" N	1° 14' 55,002" E
106	53° 0' 53,523" N	1° 14' 34,350" E
107	53° 0' 37,631" N	1° 14' 15,360" E
108	53° 0' 19,626" N	1° 13' 59,138" E
109	53° 0' 4,888" N	1° 13' 45,462" E
110	52° 59' 45,135" N	1° 13' 20,396" E
111	52° 59' 8,327" N	1° 12' 31,064" E
112	52° 58' 31,514" N	1° 11' 41,754" E
113	52° 58' 3,439" N	1° 11' 1,017" E
114	52° 57' 35,361" N	1° 10' 20,295" E
115	52° 56' 54,694" N	1° 9' 27,639" E
116	52° 56' 54,694" N	1° 9' 27,604" E
117	52° 56' 54,690" N	1° 9' 27,438" E
118	52° 56' 54,680" N	1° 9' 27,273" E
119	52° 56' 54,664" N	1° 9' 27,109" E
120	52° 56' 54,643" N	1° 9' 26,945" E
121	52° 56' 54,630" N	1° 9' 26,860" E
122	52° 56' 54,631" N	1° 9' 26,827" E
123	52° 56' 54,664" N	1° 9' 25,966" E
124	52° 56' 54,694" N	1° 9' 25,197" E
125	52° 56' 54,708" N	1° 9' 24,908" E
126	52° 56' 54,755" N	1° 9' 24,108" E
127	52° 56' 54,825" N	1° 9' 22,821" E
128	52° 56' 54,902" N	1° 9' 21,380" E
129	52° 56' 54,954" N	1° 9' 20,542" E
130	52° 56' 54,988" N	1° 9' 19,874" E
131	52° 56' 55,005" N	1° 9' 19,463" E
132	52° 56' 55,021" N	1° 9' 19,228" E
133	52° 56' 55,096" N	1° 9' 18,274" E
134	52° 56' 55,133" N	1° 9' 17,756" E
135	52° 56' 55,159" N	1° 9' 17,538" E
136	52° 56' 55,187" N	1° 9' 17,240" E
137	52° 56' 55,258" N	1° 9' 16,558" E
138	52° 56' 55,336" N	1° 9' 15,883" E
139	52° 56' 55,442" N	1° 9' 14,936" E
140	52° 56' 55,566" N	1° 9' 13,609" E
141	52° 56' 55,689" N	1° 9' 12,143" E
142	52° 56' 55,724" N	1° 9' 11,700" E
143	52° 56' 55,761" N	1° 9' 11,231" E

144	52° 56' 55,789" N	1° 9' 10,675" E
145	52° 56' 55,816" N	1° 9' 10,210" E
146	52° 56' 55,838" N	1° 9' 9,767" E
147	52° 56' 55,855" N	1° 9' 9,204" E
148	52° 56' 55,878" N	1° 9' 8,627" E
149	52° 56' 55,882" N	1° 9' 8,037" E
150	52° 56' 55,885" N	1° 9' 7,479" E
151	52° 56' 55,894" N	1° 9' 6,938" E
152	52° 56' 55,906" N	1° 9' 6,520" E
153	52° 56' 55,940" N	1° 9' 5,589" E
154	52° 56' 55,960" N	1° 9' 4,555" E
155	52° 56' 55,985" N	1° 9' 3,908" E
156	52° 56' 56,007" N	1° 9' 3,035" E
157	52° 56' 56,043" N	1° 9' 2,131" E
158	52° 56' 56,081" N	1° 9' 1,281" E
159	52° 56' 56,125" N	1° 9' 0,426" E
160	52° 56' 56,138" N	1° 9' 0,083" E
161	52° 56' 56,144" N	1° 9' 0,019" E
162	52° 56' 56,142" N	1° 8' 59,955" E
163	52° 56' 56,135" N	1° 8' 59,853" E
164	52° 56' 56,120" N	1° 8' 59,728" E
165	52° 56' 56,115" N	1° 8' 59,685" E
166	52° 56' 56,113" N	1° 8' 59,636" E
167	52° 56' 56,116" N	1° 8' 59,535" E
168	52° 56' 56,126" N	1° 8' 59,396" E
169	52° 56' 56,149" N	1° 8' 59,280" E
170	52° 56' 56,156" N	1° 8' 59,130" E
171	52° 56' 56,160" N	1° 8' 59,023" E
172	52° 56' 56,159" N	1° 8' 58,921" E
173	52° 56' 56,153" N	1° 8' 58,797" E
174	52° 56' 56,149" N	1° 8' 58,711" E
175	52° 56' 56,158" N	1° 8' 58,620" E
176	52° 56' 56,166" N	1° 8' 58,567" E
177	52° 56' 56,177" N	1° 8' 58,514" E
178	52° 56' 56,199" N	1° 8' 58,436" E
179	52° 56' 56,210" N	1° 8' 58,388" E
180	52° 56' 56,221" N	1° 8' 58,336" E
181	52° 56' 56,229" N	1° 8' 58,283" E
182	52° 56' 56,234" N	1° 8' 58,224" E
183	52° 56' 56,236" N	1° 8' 58,154" E
184	52° 56' 56,232" N	1° 8' 58,084" E
185	52° 56' 56,213" N	1° 8' 57,949" E
186	52° 56' 56,196" N	1° 8' 57,851" E
187	52° 56' 56,191" N	1° 8' 57,792" E
188	52° 56' 56,190" N	1° 8' 57,727" E
189	52° 56' 56,192" N	1° 8' 57,652" E
190	52° 56' 56,200" N	1° 8' 57,578" E
191	52° 56' 56,212" N	1° 8' 57,482" E
192	52° 56' 56,230" N	1° 8' 57,392" E
193	52° 56' 56,244" N	1° 8' 57,351" E

194	52° 56' 56,255" N	1° 8' 57,303" E
195	52° 56' 56,267" N	1° 8' 57,218" E
196	52° 56' 56,273" N	1° 8' 57,122" E
197	52° 56' 56,271" N	1° 8' 56,950" E
198	52° 56' 56,256" N	1° 8' 56,751" E
199	52° 56' 56,247" N	1° 8' 56,601" E
200	52° 56' 56,242" N	1° 8' 56,536" E
201	52° 56' 56,244" N	1° 8' 56,472" E
202	52° 56' 56,260" N	1° 8' 56,361" E
203	52° 56' 56,274" N	1° 8' 56,303" E
204	52° 56' 56,285" N	1° 8' 56,239" E
205	52° 56' 56,307" N	1° 8' 56,021" E
206	52° 56' 56,320" N	1° 8' 55,647" E
207	52° 56' 56,327" N	1° 8' 55,080" E
208	52° 56' 56,337" N	1° 8' 54,834" E
209	52° 56' 56,357" N	1° 8' 54,434" E
210	52° 56' 56,378" N	1° 8' 53,980" E
211	52° 56' 56,405" N	1° 8' 53,527" E
212	52° 56' 56,442" N	1° 8' 52,977" E
213	52° 56' 56,474" N	1° 8' 52,583" E
214	52° 56' 56,485" N	1° 8' 52,402" E
215	52° 56' 56,493" N	1° 8' 52,215" E
216	52° 56' 56,496" N	1° 8' 52,018" E
217	52° 56' 56,571" N	1° 8' 50,912" E
218	52° 56' 56,607" N	1° 8' 50,422" E
219	52° 56' 56,644" N	1° 8' 49,931" E
220	52° 56' 56,682" N	1° 8' 49,441" E
221	52° 56' 56,719" N	1° 8' 48,951" E
222	52° 56' 56,755" N	1° 8' 48,460" E
223	52° 56' 56,778" N	1° 8' 48,023" E
224	52° 56' 56,793" N	1° 8' 47,584" E
225	52° 56' 56,804" N	1° 8' 47,144" E
226	52° 56' 56,821" N	1° 8' 46,705" E
227	52° 56' 56,849" N	1° 8' 46,269" E
228	52° 56' 57,031" N	1° 8' 44,094" E
229	52° 56' 57,117" N	1° 8' 43,069" E
230	52° 56' 57,183" N	1° 8' 42,274" E
231	52° 56' 57,208" N	1° 8' 42,038" E
232	52° 56' 57,216" N	1° 8' 41,942" E
233	52° 56' 57,222" N	1° 8' 41,846" E
234	52° 56' 57,222" N	1° 8' 41,826" E
235	52° 56' 57,242" N	1° 8' 41,608" E
236	52° 56' 57,243" N	1° 8' 41,601" E
237	52° 56' 57,276" N	1° 8' 41,405" E
238	52° 56' 57,304" N	1° 8' 41,209" E
239	52° 56' 57,335" N	1° 8' 40,949" E
240	52° 56' 57,367" N	1° 8' 40,652" E
241	52° 56' 57,390" N	1° 8' 40,348" E
242	52° 56' 57,409" N	1° 8' 40,076" E
243	52° 56' 57,426" N	1° 8' 39,917" E

244	52° 56' 57,434" N	1° 8' 39,811" E
245	52° 56' 57,442" N	1° 8' 39,576" E
246	52° 56' 57,443" N	1° 8' 39,487" E
247	52° 56' 57,471" N	1° 8' 39,155" E
248	52° 56' 57,517" N	1° 8' 38,578" E
249	52° 56' 57,560" N	1° 8' 37,999" E
250	52° 56' 57,601" N	1° 8' 37,421" E
251	52° 56' 57,628" N	1° 8' 36,995" E
252	52° 56' 57,651" N	1° 8' 36,569" E
253	52° 56' 57,673" N	1° 8' 36,143" E
254	52° 56' 57,696" N	1° 8' 35,716" E
255	52° 56' 57,723" N	1° 8' 35,291" E
256	52° 56' 57,756" N	1° 8' 34,877" E
257	52° 56' 57,791" N	1° 8' 34,520" E
258	52° 56' 57,805" N	1° 8' 34,405" E
259	52° 56' 57,833" N	1° 8' 34,187" E
260	52° 56' 57,854" N	1° 8' 33,996" E
261	52° 56' 57,876" N	1° 8' 33,767" E
262	52° 56' 57,909" N	1° 8' 33,475" E
263	52° 56' 57,937" N	1° 8' 33,262" E
264	52° 56' 57,958" N	1° 8' 33,060" E
265	52° 56' 57,974" N	1° 8' 32,825" E
266	52° 56' 57,988" N	1° 8' 32,547" E
267	52° 56' 57,996" N	1° 8' 32,371" E
268	52° 56' 58,009" N	1° 8' 32,099" E
269	52° 56' 58,026" N	1° 8' 31,698" E
270	52° 56' 58,053" N	1° 8' 31,164" E
271	52° 56' 58,091" N	1° 8' 30,706" E
272	52° 56' 58,128" N	1° 8' 30,178" E
273	52° 56' 58,173" N	1° 8' 29,592" E
274	52° 56' 58,219" N	1° 8' 29,048" E
275	52° 56' 58,278" N	1° 8' 28,431" E
276	52° 56' 58,343" N	1° 8' 27,669" E
277	52° 56' 58,359" N	1° 8' 27,381" E
278	52° 56' 58,372" N	1° 8' 27,216" E
279	52° 56' 58,390" N	1° 8' 26,964" E
280	52° 56' 58,392" N	1° 8' 26,912" E
281	52° 56' 58,403" N	1° 8' 26,797" E
282	52° 56' 58,398" N	1° 8' 26,780" E
283	52° 56' 57,591" N	1° 8' 23,453" E
284	52° 56' 57,607" N	1° 8' 23,312" E
285	52° 56' 57,696" N	1° 8' 22,616" E
286	52° 56' 57,819" N	1° 8' 21,510" E
287	52° 56' 58,021" N	1° 8' 19,543" E
288	52° 56' 58,156" N	1° 8' 18,267" E
289	52° 56' 58,293" N	1° 8' 16,991" E
290	52° 56' 58,371" N	1° 8' 16,290" E
291	52° 56' 58,452" N	1° 8' 15,590" E
292	52° 56' 58,533" N	1° 8' 14,889" E
293	52° 56' 58,611" N	1° 8' 14,188" E

294	52° 56' 58,684" N	1° 8' 13,438" E
295	52° 56' 58,747" N	1° 8' 12,686" E
296	52° 56' 58,808" N	1° 8' 11,957" E
297	52° 56' 58,817" N	1° 8' 11,966" E
298	52° 56' 58,840" N	1° 8' 11,992" E
299	52° 56' 59,726" N	1° 8' 12,960" E
300	52° 57' 0,102" N	1° 8' 13,371" E
301	52° 57' 8,134" N	1° 8' 22,147" E
302	52° 57' 14,357" N	1° 8' 25,824" E
303	52° 57' 22,662" N	1° 8' 28,252" E
304	52° 57' 40,113" N	1° 8' 33,188" E
305	52° 57' 42,426" N	1° 8' 35,383" E
306	52° 57' 52,102" N	1° 8' 56,636" E
307	52° 58' 16,245" N	1° 10' 2,679" E
308	52° 58' 41,839" N	1° 10' 38,668" E
309	52° 59' 7,430" N	1° 11' 14,669" E
310	52° 59' 42,249" N	1° 12' 2,219" E
311	53° 0' 17,064" N	1° 12' 49,789" E
312	53° 0' 35,405" N	1° 13' 4,931" E
313	53° 0' 57,553" N	1° 13' 25,221" E
314	53° 1' 22,451" N	1° 13' 58,051" E
315	53° 1' 27,774" N	1° 14' 5,055" E
316	53° 1' 30,435" N	1° 14' 8,557" E
317	53° 1' 31,101" N	1° 14' 9,432" E
318	53° 1' 31,267" N	1° 14' 9,651" E
319	53° 1' 31,350" N	1° 14' 9,760" E
320	53° 1' 31,433" N	1° 14' 9,870" E
321	53° 1' 31,766" N	1° 14' 10,308" E
322	53° 1' 33,097" N	1° 14' 12,058" E
323	53° 1' 43,742" N	1° 14' 26,066" E
324	53° 1' 54,320" N	1° 14' 36,758" E
325	53° 1' 59,354" N	1° 14' 39,959" E
326	53° 1' 59,983" N	1° 14' 40,359" E
327	53° 2' 0,613" N	1° 14' 40,760" E
328	53° 2' 1,871" N	1° 14' 41,560" E
329	53° 2' 4,388" N	1° 14' 43,161" E
330	53° 2' 14,457" N	1° 14' 49,564" E
331	53° 3' 4,871" N	1° 15' 12,274" E
332	53° 4' 0,089" N	1° 15' 35,690" E
333	53° 4' 23,250" N	1° 15' 46,786" E
334	53° 5' 0,996" N	1° 15' 11,113" E
335	53° 5' 20,705" N	1° 14' 48,183" E
336	53° 5' 33,957" N	1° 13' 54,955" E
337	53° 5' 47,202" N	1° 13' 1,718" E
338	53° 5' 47,266" N	1° 13' 1,677" E
339	53° 5' 47,266" N	1° 13' 1,676" E
340	53° 5' 47,540" N	1° 13' 1,498" E
341	53° 5' 47,545" N	1° 13' 1,495" E
342	53° 5' 50,444" N	1° 12' 59,604" E
343	53° 5' 50,506" N	1° 12' 59,565" E

344	53° 6' 19,018" N	1° 12' 40,975" E
345	53° 6' 19,097" N	1° 12' 40,924" E
346	53° 6' 42,962" N	1° 12' 25,364" E
347	53° 6' 43,080" N	1° 12' 25,287" E
348	53° 7' 12,739" N	1° 12' 5,962" E
349	53° 7' 42,397" N	1° 11' 46,630" E
350	53° 7' 49,968" N	1° 11' 41,694" E
351	53° 8' 12,055" N	1° 11' 27,290" E
352	53° 8' 41,711" N	1° 11' 7,942" E
353	53° 8' 41,717" N	1° 11' 7,938" E
354	53° 8' 49,191" N	1° 11' 3,065" E
355	53° 8' 49,206" N	1° 11' 3,056" E
356	53° 8' 57,559" N	1° 10' 57,610" E
357	53° 8' 57,564" N	1° 10' 57,607" E
358	53° 8' 58,833" N	1° 10' 56,779" E
359	53° 8' 58,859" N	1° 10' 56,762" E
360	53° 9' 10,110" N	1° 10' 9,689" E
361	53° 9' 21,357" N	1° 9' 22,609" E
362	53° 9' 32,598" N	1° 8' 35,522" E
363	53° 9' 43,834" N	1° 7' 48,428" E
364	53° 9' 55,065" N	1° 7' 1,328" E
365	53° 10' 6,290" N	1° 6' 14,221" E
366	53° 10' 17,511" N	1° 5' 27,107" E
367	53° 10' 28,726" N	1° 4' 39,986" E
368	53° 10' 46,425" N	1° 3' 19,628" E
369	53° 11' 4,109" N	1° 1' 59,252" E
370	53° 11' 31,621" N	1° 2' 25,520" E
371	53° 11' 59,131" N	1° 2' 51,798" E
372	53° 12' 26,640" N	1° 3' 18,084" E
373	53° 12' 54,148" N	1° 3' 44,380" E
374	53° 13' 21,654" N	1° 4' 10,686" E
375	53° 13' 49,158" N	1° 4' 37,000" E
376	53° 14' 16,661" N	1° 5' 3,324" E
377	53° 14' 44,162" N	1° 5' 29,657" E
378	53° 14' 10,501" N	1° 6' 22,744" E
379	53° 13' 36,833" N	1° 7' 15,807" E
380	53° 13' 3,158" N	1° 8' 8,847" E
381	53° 12' 29,477" N	1° 9' 1,864" E
382	53° 11' 55,788" N	1° 9' 54,857" E
383	53° 11' 22,093" N	1° 10' 47,828" E
384	53° 10' 48,391" N	1° 11' 40,775" E
385	53° 10' 14,683" N	1° 12' 33,700" E
386	53° 11' 24,043" N	1° 12' 55,421" E
387	53° 12' 33,402" N	1° 13' 17,161" E
388	53° 13' 42,760" N	1° 13' 38,920" E
389	53° 14' 52,117" N	1° 14' 0,698" E
390	53° 16' 1,472" N	1° 14' 22,495" E
391	53° 17' 10,827" N	1° 14' 44,310" E
392	53° 18' 20,180" N	1° 15' 6,145" E
393	53° 19' 29,532" N	1° 15' 27,998" E

394	53° 20' 0,390" N	1° 14' 40,388" E
395	53° 19' 31,548" N	1° 13' 30,141" E
396	53° 19' 2,699" N	1° 12' 19,932" E
397	53° 19' 34,347" N	1° 11' 47,739" E
398	53° 20' 5,992" N	1° 11' 15,533" E
399	53° 20' 37,635" N	1° 10' 43,313" E
400	53° 21' 9,275" N	1° 10' 11,081" E
401	53° 21' 9,340" N	1° 11' 6,237" E
402	53° 21' 9,399" N	1° 12' 1,393" E
403	53° 21' 9,451" N	1° 12' 56,550" E
404	53° 21' 9,495" N	1° 13' 51,706" E
405	53° 21' 9,533" N	1° 14' 46,863" E
406	53° 21' 9,563" N	1° 15' 42,020" E
407	53° 21' 9,584" N	1° 16' 30,130" E
408	53° 21' 9,602" N	1° 17' 32,335" E
409	53° 20' 46,340" N	1° 18' 7,238" E
410	53° 20' 58,886" N	1° 18' 37,507" E
411	53° 21' 16,936" N	1° 18' 58,324" E
412	53° 21' 24,406" N	1° 19' 46,805" E
413	53° 21' 27,180" N	1° 20' 4,816" E
414	53° 21' 37,414" N	1° 21' 11,318" E
415	53° 21' 47,638" N	1° 22' 17,828" E
416	53° 21' 57,851" N	1° 23' 24,348" E
417	53° 21' 25,995" N	1° 23' 42,880" E

7. This marine licence remains in force until the authorised project has been decommissioned in accordance with a programme approved by the Secretary of State under section 106 (approval of decommissioning programmes) of the 2004 Act, including any modification to the programme under section 108, and the completion of such programme has been confirmed by the Secretary of State in writing.

8. The provisions of section 72 (variation, suspension, revocation and transfer) of the 2009 Act apply to this marine licence except that the provisions of section 72(7) and (8) relating to the transfer of the marine licence apply only to a transfer not falling within article 5 (benefit of order) of the Order.

9.—(1) With respect to any condition which requires the licensed activities be carried out in accordance with the details, plans or schemes approved under this marine licence, the approved details, plans or schemes are taken to include any amendments that may subsequently be approved in writing by the MMO.

(2) Any amendments to or variations from the approved details, plans or schemes must be in accordance with the principles and assessments set out in the environmental statement and approval of an amendment or variation may only be given where it has been demonstrated to the satisfaction of the MMO that it is unlikely to give rise to any materially new or materially different environmental effects from those assessed in the environmental statement.

10. Should the undertaker become aware that any of the information on which the granting of this marine licence was based was materially false or misleading, the undertaker must notify the MMO of this fact in writing as soon as is reasonably practicable. The undertaker must explain in writing what information was materially false or misleading and must provide to the MMO the correct information.

PART 2

Conditions

Design parameters

Offshore Substation Platform

1.—(1) The dimensions of the offshore substation platform in Work No. 3B or 3C (excluding towers, masts and cranes) must not exceed—

- (a) 70 metres in length;
- (b) 40 metres in width; or
- (c) 50 metres in height above HAT.

(2) Offshore substation platform foundation in Work No. 3B or 3C must be of one of the following foundation options: piled jacket or suction bucket jacket.

(3) The offshore substation platform foundation in Work No. 3B or 3C must not—

- (a) have more than four legs;
- (b) have more than eight piles;
- (c) have a pile diameter exceeding 3.5 metres;
- (d) employ a hammer energy during installation exceeding 3,000 kilojoules;
- (e) have a seabed footprint (excluding subsea scour protection) exceeding 452 square metres; or
- (f) have a seabed footprint (including subsea scour protection) exceeding 4,761 square metres.

(4) The total amount of scour protection for the offshore substation platform in Work No. 3B or 3C must not exceed 4054 square metres.

(5) The total volume of scour protection for the offshore substation platform in Work No. 3B or 3C must not exceed 7297 cubic metres.

Cables and cable protection

2.—(1) In the event of scenario 1, scenario 2 or scenario 3 within Work Nos. 3B to 5B the offshore export cables must not, in total—

- (a) exceed one in number;
- (b) exceed 62 kilometres in length;
- (c) exceed four cable crossings;
- (d) have cable protection (including cable crossings) exceeding 9,504 square metres in area; or
- (e) have cable protection (including cable crossings) exceeding 6885 cubic metres in volume.

(2) In the event of scenario 1, scenario 2 or scenario 3, within Work No. 4B the interlink cables must not, in total—

- (a) exceed four in number;
- (b) exceed 92 kilometres in length;
- (c) exceed twelve cable crossings;
- (d) have cable protection (including cable crossings) exceeding 22,216 square metres in area; or
- (e) have cable protection (including cable crossings) exceeding 13,960 cubic metres in volume.

(3) In the event of scenario 4 within Work Nos. 3C to 5C, the offshore export cables must not, in total—

- (a) exceed two in number;
- (b) exceed 80 kilometres in length;

- (c) exceed eight cable crossings;
 - (d) have cable protection (including cable crossings) exceeding 16,008 square metres in area;
or
 - (e) have cable protection (including cable crossings) exceeding 12,645 cubic metres in volume.
- (4) In the event of scenario 4, within Work No. 4C the interlink cables must not, in total—
- (a) exceed eight in number;
 - (b) exceed 224 kilometres in length;
 - (c) exceed fourteen cable crossings;
 - (d) have cable protection (including cable crossings) exceeding 30,252 square metres in area;
or
 - (e) have cable protection (including cable crossings) exceeding 17,370 cubic metres in volume.

Scenarios and Phases of authorised project

3.—(1) The authorised project must not be commenced until a notification has been submitted to the MMO as to whether the undertaker intends to commence scenario 1, scenario 2, scenario 3 or scenario 4.

(2) The notification required under sub-paragraph (1) must be submitted to the MMO prior to submission of the written scheme to be submitted for approval under sub-paragraph (3).

(3) The authorised project must not be commenced until a written scheme setting out (with regards to the relevant scenario notified under sub-paragraph (1)) the phases of construction of the authorised project has been submitted to and approved in writing by the MMO.

(4) Any subsequent amendments to the written scheme submitted for approval under sub-paragraphs (3) must be submitted to, and approved by, the MMO.

(5) The written scheme submitted for approval under sub-paragraphs (3) must be implemented as approved. The approved details shall be taken to include any amendment that may subsequently be approved in accordance with sub-paragraph (4).

Vessels under the undertaker's control

4.—(1) The undertaker must issue to operators of vessels under the undertaker's control operating within the Order limits a code of conduct to reduce risk of injury to marine mammals.

Extension of time periods

5. Any time period given in this marine licence to either the undertaker or the MMO may be extended with the agreement of the other party, such agreement not to be unreasonably withheld or delayed.

Notifications and inspections

6.—(1) The undertaker must ensure that—

- (a) a copy of this marine licence (issued as part of the grant of the Order) and any subsequent amendments or revisions to it is provided to—
 - (i) all agents and contractors notified to the MMO in accordance with condition 16;
 - (ii) the masters and transport managers responsible for the vessels notified to the MMO in accordance with condition 16; and
- (b) within 28 days of receipt of a copy of this marine licence and any subsequent amendments or revisions to it, those persons referred to in sub-paragraph (1)(a) must confirm receipt of this marine licence in writing to the MMO.

(2) Only those persons and vessels notified to the MMO in accordance with condition 16 are permitted to carry out the licensed activities.

- (3) Copies of this marine licence must also be available for inspection at the following locations—
- (a) the undertaker's registered address;
 - (b) any site office located at or adjacent to the construction site and used by the undertaker or its agents and contractors responsible for the loading, transportation or deposit of the authorised deposits; and
 - (c) on board each vessel and at the office of any transport manager with responsibility for vessels from which authorised deposits or removals are to be made.
- (4) The documents referred to in sub-paragraph (1) must be available for inspection by an authorised enforcement officer at the locations set out in sub-paragraph (3).
- (5) The undertaker must provide access, and if necessary appropriate transportation, to the offshore construction site or any other associated works or vessels to facilitate any inspection that the MMO considers necessary to inspect the works during the construction and operation of the authorised project.
- (6) The undertaker must inform the MMO local office in writing at least five days prior to the commencement of the licensed activities or any part of them and within five days of the completion of the licensed activity.
- (7) The undertaker must inform the Kingfisher Information Service of Seafish by email to kingfisher@seafish.co.uk of details of the vessel routes, timings and locations relating to the construction of the authorised project or relevant part—
- (a) at least fourteen days prior to the commencement of offshore activities, for inclusion in the Kingfisher Fortnightly Bulletin and offshore hazard awareness data;
 - (b) on completion of construction of all offshore activities,
- and confirmation of notification must be provided to the MMO within five days.
- (8) The undertaker must ensure that a local notification to mariners is issued at least 14 days prior to the commencement of the authorised project or any part thereof advising of the start date of each of Work Nos. 3B, 4B, 5B, 6B and 7B in the event of scenario 1, scenario 2 or scenario 3 or 3C, 4C, 5C, 6C and 7C in the event of scenario 4 and the expected vessel routes from the construction ports to the relevant location. Copies of all notices must be provided to the MMO, MCA and UKHO within five days.
- (9) The undertaker must ensure that local notifications to mariners are updated and reissued at weekly intervals during construction activities and at least five days before any planned operations (or otherwise agreed) and maintenance works and supplemented with VHF radio broadcasts agreed with the MCA in accordance with the construction programme and monitoring plan approved under condition 12(1)(b). Copies of all notices must be provided to the MMO and UKHO within five days.
- (10) The undertaker must notify UKHO of:—
- (a) commencement of the licensed activities at least ten working days prior to commencement; and
 - (b) completion (within fourteen days) of the authorised project or any part thereof
- in order that all necessary amendments to nautical charts are made. Copies of all notices must be provided to the MMO and MCA within five days.
- (11) In case of damage to, or destruction or decay of, the authorised project or any part thereof, excluding the exposure of cables, the undertaker must as soon as reasonably practicable and no later than 24 hours following the undertaker becoming aware of any such damage, destruction or decay, notify the MMO, MCA, Trinity House, the Kingfisher Information Service of Seafish and UKHO.
- (12) In case of the exposure of cables on or above the seabed, the undertaker must within three days following identification of a potential cable exposure, notify mariners and inform the Kingfisher Information Service of Seafish of the location and extent of exposure. Copies of all notices must be provided to the MMO, MCA, Trinity House, and UKHO within five days.

Aids to navigation

7.—(1) The undertaker must during the whole of the period from commencement of construction of the authorised project to completion of decommissioning of the authorised project exhibit such lights, marks, sounds, signals and other aids to navigation, and take such other steps for the prevention of danger to navigation, as Trinity House may from time to time direct.

(2) The undertaker must during the period from commencement of construction of the authorised project to completion of decommissioning of the authorised project keep Trinity House and the MMO informed of progress of the authorised project including—

- (a) notice of commencement of construction of the authorised project within 24 hours of commencement having occurred;
- (b) notice within 24 hours of any aids to navigation being established by the undertaker; and
- (c) notice within five days of completion of construction of the authorised project.

(3) The undertaker must provide reports to Trinity House on the availability of aids to navigation in accordance with the frequencies set out in the aids to navigation management plan agreed pursuant to condition 12(1)(h) using the reporting system provided by Trinity House.

(4) The undertaker must during the period from commencement of the licensed activities to completion of decommissioning of the authorised project notify Trinity House and the MMO of any failure of the aids to navigation, and the timescales and plans for remedying such failures, as soon as possible and no later than 24 hours following the undertaker becoming aware of any such failure.

(5) In the event that the provisions of condition 6(11) and condition 6(12) are invoked the undertaker must lay down such buoys, exhibit such lights and take such other steps for preventing danger to navigation as directed by Trinity House.

Colouring of structures

8. Except as otherwise required by Trinity House the undertaker must paint all structures forming part of the authorised project yellow (colour code RAL 1023) from at least HAT to a height as directed by Trinity House. Unless the MMO otherwise directs, the undertaker must paint the remainder of the structures grey (colour code RAL 7035).

Aviation safety

9.—(1) The undertaker must exhibit such lights, with such shape, colour and character as are required in writing by the Air Navigation Order 2016 and determined necessary for aviation safety in consultation with the Defence Infrastructure Organisation Safeguarding and as directed by the Civil Aviation Authority.

(2) The undertaker must notify the Defence Infrastructure Organisation Safeguarding, the Civil Aviation Authority and the MMO, at least 14 days prior to the commencement of the authorised project, in writing of the following information—

- (a) the date of the commencement of construction of the authorised project;
- (b) the date any offshore substation platforms are brought into use;
- (c) the maximum height of any construction equipment to be used;
- (d) the maximum height of each offshore substation platform to be constructed;
- (e) the latitude and longitude of each offshore substation platform to be constructed;

and the Defence Infrastructure Organisation Safeguarding and the Civil Aviation Authority must be notified of any changes to the information supplied under this paragraph and of the completion of the construction of the authorised project. Copies of notifications must be provided to the MMO within five days.

Chemicals, drilling and debris

10.—(1) Unless otherwise agreed in writing by the MMO, the carriage and use of chemicals in the construction of the authorised project must comply with the International Convention for the Prevention of Pollution from Ships 1973 as modified by the Protocol of 1978 relating thereto and by the Protocol of 1997.

(2) The undertaker must ensure that any coatings and treatments are suitable for use in the marine environment and are used in accordance with guidelines approved by the Health and Safety Executive and the Environment Agency Pollution Prevention Control Guidelines.

(3) The storage, handling, transport and use of fuels, lubricants, chemicals and other substances must be undertaken so as to prevent releases into the marine environment, including bunding of 110 percent of the total volume of all reservoirs and containers.

(4) The undertaker must inform the MMO in writing of the location and quantities of material disposed of each month under this marine licence by submission of a disposal return by 15 February each year for the months August to January inclusive, and by 15 August each year for the months February to July inclusive.

(5) The undertaker must ensure that only inert material of natural origin, produced during pre-sweeping sandwave clearance where relevant, the drilling installation of or seabed preparation for foundations, and drilling mud is disposed of within the Order limits seaward of MHWS.

(6) The undertaker must ensure that any rock material used in the construction of the authorised project is from a recognised source, free from contaminants and containing minimal fines.

(7) In the event that any rock material used in the construction of the authorised project is misplaced or lost below MHWS, the undertaker must report the loss in writing to the local enforcement office within 24 hours and if the MMO, in consultation with the MCA and Trinity House, reasonably considers such material to constitute a navigation or environmental hazard (dependent on the size and nature of the material) the undertaker must, in that event, demonstrate to the MMO that reasonable attempts have been made to locate, remove or move any such material.

(8) The undertaker must ensure that no waste concrete slurry or wash water from concrete or cement works are discharged into the marine environment. Concrete and cement mixing and washing areas must be contained to prevent run off entering the water through the freeing ports.

(9) The undertaker must ensure that any oil, fuel or chemical spill within the marine environment is reported to the MMO Marine Pollution Response Team in accordance with the marine pollution contingency plan agreed under condition 12(1)(d)(i).

(10) All dropped objects must be reported to the MMO using the Dropped Object Procedure Form as soon as reasonably practicable and in any event within 24 hours of the undertaker becoming aware of an incident. On receipt of the Dropped Object Procedure Form the MMO may require relevant surveys to be carried out by the undertaker (such as side scan sonar) if reasonable to do so and the MMO may require obstructions to be removed from the seabed at the undertaker's expense if reasonable to do so.

Force majeure

11. If, due to stress of weather or any other cause, the master of a vessel determines that it is necessary to deposit the authorised deposits within or outside of the Order limits because the safety of human life or of the vessel is threatened, within 48 hours the undertaker must notify full details of the circumstances of the deposit to the MMO.

Pre-construction plans and documentation

12.—(1) The licensed activities or any phase of those activities must not commence until the following (insofar as relevant to that activity or phase of activity) have been submitted to and approved in writing by the MMO, in consultation with Trinity House, the MCA and UKHO as appropriate—

- (a) a plan prepared in accordance with the layout commitments setting out proposed details of the authorised project, including the:
 - (i) number, dimensions, specification, foundation type(s) and depth for each wind turbine generator, offshore platform and substation;
 - (ii) the grid coordinates of the centre point of the proposed location for each wind turbine generator, platform and substation;
 - (iii) proposed layout of all cables;
 - (iv) location and specification of all other aspects of the authorised project; and
 - (v) any exclusion zones or micro-siting requirements identified pursuant to 12(1)(f)(v) or relating to any benthic habitats of conservation, ecological or economic importance constituting Annex I reef habitats identified as part of surveys undertaken in accordance with condition 17;

to ensure conformity with the description of Work Nos. 3B to 7B in the event of scenario 1, 2 or 3, or 3C to 5C and 7C in the event of scenario 4 and compliance with conditions 1 and 2;
- (b) a construction programme and monitoring plan (which accords with the offshore in principle monitoring plan) which, save in respect of information submitted pursuant to subparagraph (b)(iii)(aa), is to be submitted to the MMO at least six months prior to commencement of licensed activities and to include details of—
 - (i) the proposed construction start date;
 - (ii) proposed timings for mobilisation of plant, delivery of materials and installation works;
 - (iii) proposed pre-construction surveys, baseline report format and content, construction monitoring, post-construction surveys and monitoring and related reporting in accordance with conditions 17, 18 and 19 to be submitted to the MMO in accordance with the following (unless otherwise agreed in writing with the MMO) —
 - (aa) at least four months prior to the first survey, detail of the pre-construction surveys and an outline of all proposed pre-construction monitoring;
 - (bb) at least four months prior to construction, detail on construction monitoring; and
 - (cc) at least four months prior to commissioning, detail of post-construction (and operational) monitoring;
 - (iv) an indicative written construction programme for all offshore substation platforms and cables including fibre optic cables comprised in the works at Part 1 (licensed marine activities) of this Schedule (insofar as not shown in paragraph (ii) above);
- (c) a construction method statement in accordance with the construction methods assessed in the environmental statement, including details of—
 - (i) cable specification, installation and monitoring for cables located outside of the Cromer Shoal Chalk Beds Marine Conservation Zone to include—
 - (aa) the technical specification of cables below MHWS;
 - (bb) a detailed cable laying plan for the authorised project, incorporating a burial risk assessment encompassing the identification of any cable protection that exceeds 5 percent of navigable depth referenced to Chart Datum and, in the event that any area of cable protection exceeding 5 percent of navigable depth is identified, details of any steps (to be determined following consultation with the MCA and Trinity House) to be taken to ensure existing and future safe navigation is not compromised or similar such assessment to ascertain suitable burial depths and cable laying techniques, including cable protection; and
 - (cc) proposals for monitoring cables including cable protection until the authorised project is decommissioned which includes a risk-based approach to the management of unburied or shallow buried cables;

- (ii) scour protection and cable protection including details of the need, type, sources, quantity and installation methods for scour protection and cable protection, with details updated and resubmitted for approval if changes to it are proposed following cable laying operations;
- (iii) foundation installation methodology, including drilling methods and disposal of drill arisings and material extracted during seabed preparation for foundation and cable installation works and having regard to any mitigation scheme pursuant to subparagraph (1)(i);
- (iv) advisory safe passing distances for vessels around construction sites;
- (v) contractors;
- (vi) vessels and vessel transit corridors;
- (vii) associated ancillary works; and
- (viii) guard vessels to be employed;
- (d) a project environmental management plan (in accordance with the outline project environmental management plan) covering the period of construction and operation to include details of—
 - (i) a marine pollution contingency plan to address the risks, methods and procedures to deal with any spills and collision incidents during construction and operation of the authorised project in relation to all activities carried out;
 - (ii) a chemical risk assessment, including information regarding how and when chemicals are to be used, stored and transported in accordance with recognised best practice guidance;
 - (iii) waste management and disposal arrangements;
 - (iv) the appointment and responsibilities of a fisheries liaison officer;
 - (v) a fisheries liaison and coexistence plan (which accords with the outline fisheries liaison and co-existence plan) to ensure relevant fishing fleets are notified of commencement of licensed activities pursuant to condition 4 and to address the interaction of the licensed activities with fishing activities; and
 - (vi) procedures, which must be adopted within vessel transit corridors to minimise disturbance to red-throated diver during the period 1 November to 31 March (inclusive), which must be in accordance with the best practice protocol for minimising disturbance to red throated diver;
 - (vii) a code of conduct for vessel operators to reduce risk of injury to mammals;
- (e) a cable specification, installation and monitoring plan for the installation of cables within the Cromer Shoal Chalk Beds Marine Conservation Zone (in accordance with the outline Cromer Shoal Chalk Beds Marine Conservation Zone cable specification, installation and monitoring plan);
- (f) an archaeological written scheme of investigation in relation to the offshore Order limits seaward of MHWS, which must accord with the outline written scheme of investigation (offshore) and industry good practice, in consultation with the statutory historic body to include—
 - (i) details of responsibilities of the undertaker, archaeological consultant and contractor;
 - (ii) a methodology for further site investigation including any specifications for geophysical, geotechnical and diver or remotely operated vehicle investigations;
 - (iii) archaeological analysis of survey data, and timetable for reporting, which is to be submitted to the MMO within four months of any survey being completed;
 - (iv) delivery of any mitigation including, where necessary, identification and modification of archaeological exclusion zones;
 - (v) monitoring of archaeological exclusion zones during and post construction;

- (vi) a requirement for the undertaker to ensure that a copy of any agreed archaeological report is deposited with the Archaeological Data Service, by submitting an OASIS ('Online Access to the Index of archaeological investigations') form with a digital copy of the report within six months of completion of construction of the authorised project, and to notify the MMO and Historic England that the OASIS form has been submitted to the Archaeological Data Service within two weeks of submission;
- (vii) a reporting and recording protocol, including reporting of any wreck or wreck material during construction, operation and decommissioning of the authorised project; and
- (viii) a timetable for all further site investigations, which must allow sufficient opportunity to establish a full understanding of the historic environment within the offshore Order limits and the approval of any necessary mitigation required as a result of the further site investigations prior to commencement of licensed activities;
- (g) an offshore operations and maintenance plan (in accordance with the outline offshore operations and maintenance plan), to be submitted to the MMO at least six months prior to commencement of operation of the licensed activities and to provide for review and resubmission every three years during the operational phase;
- (h) an aids to navigation management plan to be agreed in writing by the MMO following consultation with Trinity House specifying how the undertaker will ensure compliance with condition 7 from the commencement of construction of the authorised project to the completion of decommissioning;
- (i) in the event that driven or part-driven pile foundations are proposed to be used, a marine mammal mitigation protocol (in accordance with the draft marine mammal mitigation protocol), the intention of which is to prevent injury to marine mammals, following current best practice as advised by the relevant statutory nature conservation bodies, to be submitted to the MMO at least six months prior to commencement of licensed activities;
- (j) a mitigation scheme for any benthic habitats of conservation, ecological and/or economic importance constituting Annex I reef habitats and including the designated features of the MCZ identified by the survey referred to in condition 17(4)(a) and in accordance with the offshore in principle monitoring plan;
- (k) an ornithological monitoring plan setting out the circumstances in which ornithological monitoring will be required and the monitoring to be carried out in such circumstances to be submitted to the MMO at least six months prior to commencement of licensed activities; and
- (l) a navigation management plan to manage crew transfer vessels (including daughter craft) during the construction and operation of the authorised project.

(2) Pre-commencement surveys and archaeological investigations and pre-commencement material operations which involve intrusive seabed works must only take place in accordance with a specific outline written scheme of investigation (which must accord with the details set out in the outline written scheme of investigation (offshore)) which has been submitted to and approved by the MMO.

Site Integrity Plan

13.—(1) No piling activities can take place until a Site Integrity Plan ("SIP"), which accords with the principles set out in the in principle Site Integrity Plan for the Southern North Sea Special Area of Conservation, has been submitted to, and approved in writing, by the MMO in consultation with the relevant statutory nature conservation body.

(2) The SIP submitted for approval must contain a description of the conservation objectives for the Southern North Sea Special Area of Conservation ("SNS SAC") as well as any relevant management measures and it must set out the key statutory nature conservation body advice on activities within the SNS SAC relating to piling as set out within the JNCC Guidance and how this has been considered in the context of the authorised project.

(3) The SIP must be submitted in writing to the MMO no later than six months prior to the commencement of piling activities.

(4) In approving the SIP the MMO must be satisfied that the authorised project at the preconstruction stage, in-combination with other plans and projects, is in line with the JNCC Guidance.

(5) The approved SIP may be amended with the prior written approval of the MMO, in consultation with the relevant statutory nature conservation body, where the MMO remains satisfied that the authorised project, in-combination with other plans or projects at the pre-construction stage, is in line with the JNCC Guidance.

14.—(1) Each programme, statement, plan, protocol or scheme required to be approved under condition 12 must be submitted for approval at least four months before the intended commencement of licensed activities, except where otherwise stated or unless otherwise agreed in writing by the MMO.

(2) The MMO must determine an application for approval made under conditions 12 and 13 within a period of four months commencing on the date the application is received by the MMO, unless otherwise agreed in writing with the undertaker.

(3) The licensed activities must be carried out in accordance with the plans, protocols, statements, schemes and details approved under conditions 12 and 13, unless otherwise agreed in writing by the MMO.

Offshore safety management

15. No part of the authorised project may commence until the MMO, in consultation with the MCA, has confirmed in writing that the undertaker has taken into account and, so far as is applicable to that stage of the authorised project, adequately addressed all MCA recommendations as appropriate to the authorised project contained within MGN654 “Offshore Renewable Energy Installations (OREIs) – Guidance on UK Navigational Practice, Safety and Emergency Response Issues” (or any equivalent guidance that replaces or supersedes it) and its annexes.

Reporting of engaged agents, contractors and vessels

16.—(1) The undertaker must provide the following information in writing to the MMO—

- (a) the name, function, company number (if applicable), registered or head office address (as appropriate) of any agent or contractor appointed to engage in the licensed activities within seven days of appointment; and
- (b) each week during the construction of the authorised project a completed Hydrographic Note H102 listing the vessels currently and to be used in relation to the licensed activities.

(2) The undertaker must notify the MMO in writing of any vessel being used to carry on any licensed activity listed in this marine licence on behalf of the undertaker. 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

(3) Any changes to the supplied details must be notified to the MMO in writing at least 24 hours before the agent, contractor or vessel engages in the licensed activities.

Pre-construction monitoring and surveys

17.—(1) The undertaker must, in discharging condition 12(1)(b), submit a monitoring plan or plans in accordance with the offshore in principle monitoring plan for written approval in writing by the MMO in consultation with the relevant statutory nature conservation body, which must contain details of proposed monitoring and surveys, including methodologies and timings, and a proposed format and content for a pre-construction baseline report.

(2) The survey proposals submitted under sub-paragraph (1) must be in general accordance with the principles set out in the offshore in principle monitoring plan and must specify each survey’s objectives and explain how it will assist in either informing a useful and valid comparison with the

post-construction position or will enable the validation or otherwise of key predictions in the environmental statement.

(3) The baseline report proposals submitted under sub-paragraph (1) must ensure that the outcome of the agreed surveys, together with existing data and reports, are drawn together to present a valid statement of the pre-construction position, with any limitations, and must make clear what post-construction comparison is intended and the justification for this being required.

(4) The pre-construction surveys referred to in sub-paragraph (1) must, unless otherwise agreed with the MMO, have due regard to, but not be limited to, the need to undertake—

- (a) an appropriate survey to determine the location, extent and composition of any benthic habitats of conservation, ecological and/or economic importance constituting Annex 1 reef habitats in the parts of the Order limits in which it is proposed to carry out construction works;
- (b) a swath-bathymetry survey to IHO Order 1a standard that meets the requirements MGN654 and its annexes, and side scan sonar, of the area(s) within the Order limits in which it is proposed to carry out construction works;
- (c) undertake or contribute to any marine mammal monitoring referred to in the marine mammal mitigation protocol submitted in accordance with condition 12(1)(i); and
- (d) any ornithological monitoring required by the ornithological monitoring plan submitted in accordance with condition 12(1)(k).

(5) The undertaker must carry out the surveys specified within the monitoring plan or plans in accordance with that plan or plans, unless otherwise agreed in writing by the MMO in consultation with the relevant statutory nature conservation body.

Construction monitoring and surveys

18.—(1) The undertaker must, in discharging condition 12(1)(b), submit details (which accord with the offshore in principle monitoring plan) for approval in writing by the MMO in consultation with the relevant statutory nature conservation bodies of any proposed monitoring and surveys including methodologies and timings, to be carried out during the construction of the authorised project. The survey proposals must specify each survey's objectives.

(2) In the event that driven or part-driven pile foundations are proposed, such monitoring must include measurements of noise generated by the installation of the first four piled foundations of each piled foundation type to be installed unless the MMO otherwise agrees in writing.

(3) The undertaker must carry out the surveys approved under sub-paragraph (1), including any further noise monitoring required in writing by the MMO, and provide the agreed reports in the agreed format in accordance with the agreed timetable, unless otherwise agreed in writing with the MMO in consultation with the relevant statutory nature conservation bodies.

(4) The results of the initial noise measurements monitored in accordance with sub-paragraph (2) must be provided to the MMO within six weeks of the installation of the first four piled foundations. The assessment of this report by the MMO will determine whether any further noise monitoring is required. If, in the reasonable opinion of the MMO in consultation with the relevant statutory nature conservation body, the assessment shows significantly different impacts to those assessed in the environmental statement or failures in mitigation, all piling activity must cease until an update to the marine mammal mitigation protocol and further monitoring requirements have been agreed.

(5) The undertaker must carry out the surveys specified in the construction monitoring plan in accordance with that plan, including any further noise monitoring required in writing by the MMO under sub-paragraph (4), unless otherwise agreed in writing by the MMO in consultation with the relevant statutory nature conservation body.

(6) Construction monitoring must include vessel traffic monitoring in accordance with the outline marine traffic monitoring plan, including the provision of reports on the results of that monitoring at the end of each year of the construction period to the MMO, MCA and Trinity House.

(7) In the event that piled foundations are proposed to be used, the details submitted in accordance with the marine mammal mitigation protocol must include proposals for monitoring marine mammals.

Post-construction monitoring and surveys

19.—(1) The undertaker must, in discharging condition 12(1)(b), submit details (which accord with the offshore in principle monitoring plan) for approval in writing by the MMO in consultation with the relevant statutory nature conservation bodies of proposed post-construction monitoring and surveys, including methodologies and timings, and a proposed format, content and timings for providing reports on the results.

(2) The survey proposals must specify each survey's objectives and explain how it will assist in either informing a useful and valid comparison with the pre-construction position and/or will enable the validation or otherwise of key predictions in the environmental statement.

(3) The post-construction surveys referred to in sub-paragraph (1) must, unless otherwise agreed with the MMO, have due regard to, but not be limited to, the need to—

- (a) undertake an appropriate survey to determine any change in the location, extent and composition of any benthic habitats of conservation, ecological and/or economic importance constituting Annex 1 reef habitats identified in the pre-construction survey in the parts of the Order limits in which construction works were carried out. The survey design must be informed by the results of the pre-construction benthic survey;
- (b) undertake, within twelve months of completion of the licensed activities, a full sea floor coverage swath-bathymetry survey that meets the requirements of MGN654 and its annexes, and side scan sonar, of the area(s) within the Order limits in which construction works were carried out to assess any changes in bedform topography and such further monitoring or assessment as may be agreed to ensure that cables (including fibre optic cables) have been buried or protected;
- (c) undertake any ornithological monitoring required by the ornithological monitoring plan submitted in accordance with condition 12(1)(k);
- (d) undertake post-construction traffic monitoring in accordance with the outline marine traffic monitoring plan, including the provision of reports on the results of that monitoring to the MMO, the MCA and Trinity House;
- (e) undertake or contribute to any marine mammal monitoring referred to in the marine mammal mitigation protocol submitted in accordance with condition 12(1)(i); and
- (f) undertake monitoring of cables installed within the Cromer Shoal Chalk Beds MCZ in accordance with any monitoring required by the cable specification, installation and monitoring plan for the installation of cables within the Cromer Shoal Chalk Beds Marine Conservation Zone submitted in accordance with condition 12(1)(e).

(4) The undertaker must carry out the surveys agreed under sub-paragraph (1) and provide the agreed reports to the MMO in the agreed format in accordance with the agreed timetable, unless otherwise agreed in writing with the MMO in consultation with the relevant statutory nature conservation bodies.

(5) Following installation of cables, the cable monitoring plans required under conditions 12(1)(c) and 12(1)(e) must be updated with the results of the post installation surveys. The plans must be implemented until the authorised project is decommissioned and reviewed as specified within the plan, following cable burial surveys, or as instructed by the MMO.

(6) In the event that the reports provided to the MMO under sub-paragraph (4) identify a need for additional monitoring, the requirement for any additional monitoring will be agreed with the MMO in writing and implemented as agreed.

(7) In the event that the reports provided to the MMO under sub-paragraph (4) identify impacts which are unanticipated and or beyond those predicted within the Environmental Statement and the Habitats Regulations Assessment, an adaptive management plan to reduce effects to within what was predicted with the Environmental Statement and Habitats Regulations Assessment, unless

otherwise agreed in writing by the MMO, must be submitted alongside the monitoring reports submitted under sub-paragraph (4). This plan must be agreed with the MMO in consultation with the relevant statutory nature conservation bodies to reduce effects to an agreed suitable level for the authorised project. Any such agreed and approved adaptive management or mitigation should be implemented and monitored in full to a timetable agreed in writing with the MMO. In the event that this adaptive management or mitigation requires a separate consent, the undertaker shall apply for such consent. Where a separate consent is required to undertake the agreed adaptive management or mitigation, the undertaker shall only be required to undertake the adaptive management or mitigation once the consent is granted.

Reporting of scour and cable protection

20.—(1) Not more than four months following completion of the construction of the authorised project, the undertaker must provide the MMO and the relevant statutory nature conservation bodies with a report setting out details of the cable protection and scour protection used for the authorised project.

(2) The report must include the following information—

- (a) the location of cable protection and scour protection;
- (b) the volume of cable protection and scour protection; and
- (c) any other information relating to the cable protection and scour protection as agreed between the MMO and the undertaker.

Completion of construction

21.—(1) The undertaker must submit a close out report to the MMO, the MCA, Trinity House, UKHO and the relevant statutory nature conservation body within three months of the date of completion of construction. The close out report must confirm the date of completion of construction and must include details of the latitude and longitude coordinates of the export cables, provided as Geographical Information System data referenced to WGS84 datum.

(2) Following completion of construction, no further construction activities can be undertaken under this marine licence.

Sediment Sampling

22.—(1) The undertaker must submit a sample plan request in writing to the MMO for written approval of a sample plan.

(2) The sample plan request must be made—

- (a) for capital dredging, at least six months prior to the commencement of any capital dredging; or
- (b) for maintenance dredging, at least six months prior to the end of every third year from the date of the previous sediment sample analysis.

(3) The sample plan request must include details of—

- (a) the volume of material to be dredged;
- (b) the location of the area to be dredged;
- (c) details of the material type proposed for dredging;
- (d) the type and dredging methodology (including whether it is a capital or maintenance dredge, depth of material to be dredged and proposed programme for the dredging activities); and
- (e) the location and depth of any supporting samples.

(4) Unless otherwise agreed by the MMO, the undertaker must undertake the sampling in accordance with the approved sample plan.

Collaboration

23.—(1) Prior to submission of plans and documentation required to be submitted to the MMO for approval in accordance with conditions 12 and 13, the undertaker must provide a copy of the relevant plans and documentation to SEL to enable SEL to provide any comments on the plans and documentation to the undertaker.

(2) The plans and documentation submitted to the MMO for approval in accordance with conditions 12 and 13 must be accompanied by any comments received by the undertaker from SEL in accordance with sub-paragraph (1) or a statement from the undertaker confirming that no such comments were received.

Seasonal Restriction

24.—(1) The undertaker must not carry out any cable installation works within the GW during the winter period.

(2) For the purpose of this condition—

“the GW” means the site designated as the Greater Wash Special Protection Area;

“winter period” means the period between 1 November to 31 March inclusive.

Obstacle free zone for navigational safety

25. No infrastructure of any type included within the offshore works, including wind turbine generators and offshore substation platforms, shall be installed within the area defined by the coordinates as specified below and no part of any wind turbine generator, including its blades, may overfly into the area.

<i>Point ID of the area</i>	<i>Latitude (D°M MM)</i>	<i>Longitude (D°M MM)</i>
A (NW corner)	53° 21.1541' N	1° 10.1853' E
B (SW corner)	53° 19.0449' N	1° 12.3327' E
C (SE corner)	53° 19.5696' N	1° 13.6102' E
C (NE corner)	53° 21.1558' N	1° 11.8346' E