



**MARINE AND COASTAL ACCESS ACT 2009
SECTION 72**

DEEMED MARINE LICENCE - NOTICE OF VARIATION

THE EAST ANGLIA ONE WIND FARM ORDER 2014, SCHEDULES 10 AND 11

VARIATION NUMBER:

2

AUTHORISED DEVELOPMENT:

East Anglia ONE Offshore Wind Farm

LICENCE HOLDER:

c/o East Anglia Offshore Wind Ltd.
3rd Floor
1 Tudor Street
London
EC4Y 0AH

DATE:

12 December 2016

COMPANY REGISTRATION NUMBER:

7366753

PREVIOUS VARIATIONS:

Variation 1 – 6 March 2015

The Marine Management Organisation (“MMO”) received a request on 19 May 2015 from East Anglia Offshore Wind for a variation to the deemed marine licences (“DMLs”) contained within Schedule 10 and Schedule 11 of the East Anglia ONE Offshore Wind Farm Order 2014 (“the Order”).

NOTICE IS HEREBY GIVEN that the MMO varies the DMLs in relation to each of the provisions of the DMLs specified in the first column of the table in the Annex to this notice, by replacing the words set out in the second column of that table with the words set out in the third column of that table, in accordance with section 72(3)(d) of the Marine and Coastal Access Act 2009.

This variation has immediate effect from the date of this notice.

In accordance with regulation 3 of The Marine Licensing (Notices Appeals) Regulations 2011, you may appeal the notice of variation to the First-tier Tribunal. If you wish to appeal then in accordance with Rule 22(1)(b) of the Tribunal Procedure (First-tier Tribunal)(General Regulatory Chamber) Rules 2009 (SI 2009/1976) you

have 28 days from the date of the sending of this notice to send or deliver a notice of appeal to the First-tier Tribunal.



Signed:

Name and Position: Frances Edwards, Marine Licensing Case Officer

Date: 12 December 2016

Annex 1

<i>Provision</i>	<i>Previous text</i>	<i>Replacement text</i>
Schedule 10, Part 1, Licensed Marine Activities, 1(1)	N/A	<i>“HVAC option” means an offshore and onshore connection from the offshore wind farm to the National Grid Bramford substation by way of a HVAC transmission system;</i>
Schedule 10, Part 1, Licensed Marine Activities, 1(1)	N/A	<i>“HVDC option” means an offshore and onshore connection from the offshore wind farm to the National Grid Bramford substation by way of a HVDC transmission system;</i>
Schedule 10, Part 1, Licensed Marine Activities, 1(1)	<i>“Work No. 2” means up to two HVDC offshore converter stations</i>	<i>“Work No. 2” means up to two HVDC offshore converter stations for the HVDC option or up to two HVAC collector stations for the HVAC option;</i>
Schedule 10, Part 1, Licensed Marine Activities, 1(1)	<i>“Work No. 3A” means up to four HVDC export cables from Work No. 2 to MHWS; and</i>	<i>“Work No. 3A” means up to four HVDC export cables for the HVDC option or up to two HVAC export cables for the HVAC option from Work No. 1(b) for the HVAC option or Work No. 2 to MHWS; and</i>
Schedule 10, Part 1, Licensed Marine Activities, 1(1)(h)	<i>English Heritage Eastgate Court 195-205 High Street Guildford</i>	<i>Historic England The Engine House Fire Fly Avenue Swindon</i>

	<i>GU1 3EH</i> <i>Tel: 01483 252 057</i>	<i>SN2 2EH</i> <i>Tel: 01793 445050</i>
Schedule 10, Part 1, Licensed Marine Activities, 2(2)	<i>(a) an offshore wind turbine generating station with a gross electrical output capacity of up to 1,200 MW comprising up to 240 wind turbine generators each fixed to the seabed by one of three foundation types (namely, jacket foundation, gravity base foundation or suction caisson foundation), fitted with rotating blades and situated within the area shown on the works plan and further comprising paragraphs (b) to (d);</i>	<i>(a) an offshore wind turbine generating station with a gross electrical output capacity of up to 1,200 MW comprising up to 240 wind turbine generators under the HVDC option or a gross electrical output capacity of up to 750 MW comprising up to 150 wind turbine generators under the HVAC option, each wind turbine generator fixed to the seabed by one of three foundation types (namely, jacket foundation, gravity base foundation or suction caisson foundation), fitted with rotating blades and situated within the area shown on the works plan and further comprising paragraphs (b) to (d);</i>
Schedule 10, Part 1, Licensed Marine Activities, 2(2)	<i>(b) up to three HVAC offshore collector stations each fixed to the seabed within the area shown on the works plan by one of two foundation types (namely jacket foundation or gravity base foundation);</i>	<i>(b) up to three HVAC offshore collector stations for the HVDC option or up to two HVAC offshore collector stations for the HVAC option (which may alternatively be constructed under Work No. 2), each fixed to the seabed within the area shown on the works plan by one of two foundation types (namely jacket foundation or gravity base foundation);</i>
Schedule 10, Part 1, Licensed Marine Activities, 2(2)	<i>(d) a network of subsea cables within the area shown on the works plan between the WTGs and the HVAC offshore collector stations, up to two interconnection cables</i>	<i>(d) a network of subsea cables within the area shown on the works plan between the WTGs and the HVAC offshore collector stations, up to two interconnection cables between the HVAC offshore</i>

	<p><i>between the HVAC offshore collector stations, up to ten export cables between the HVAC offshore collector stations and Work No. 2, and up to one interconnection cable between the HVDC offshore converter stations comprising Work No. 2 for the transmission of electricity and electronic communications between these different structures including one or more cable crossings.</i></p>	<p><i>collector stations for the HVDC option and the HVAC option, up to ten export cables between the HVAC offshore collector stations and Work No. 2 for the HVDC option, and up to one interconnection cable between the HVDC offshore converter stations for the HVDC option comprising Work No. 2 for the transmission of electricity and electronic communications between these different structures including one or more cable crossings.</i></p>
Schedule 10, Part 2, Conditions, 3	<p><i>(1) The total number of HVAC offshore collector stations forming part of the authorised scheme must not exceed three.</i></p>	<p><i>(1) The total number of HVAC offshore collector stations forming part of the authorised scheme must not exceed three for the HVDC option or two for the HVAC option (whether constructed under Work No. 1 or Work No. 2).</i></p>
Schedule 10, Part 2, Conditions, 3	<p><i>(2) The dimensions of any HVAC offshore collector stations forming part of the authorised scheme (excluding towers, helipads, masts and cranes) must not exceed 60 metres in height when measured from LAT, 30 metres in length and 40 metres in width.</i></p>	<p><i>(3) The dimensions of any HVAC offshore collector stations for the HVDC option forming part of the authorised scheme (excluding towers, helipads, masts and cranes) must not exceed 60 metres in height when measured from LAT, 30 metres in length and 40 metres in width.</i></p>
Schedule 10, Part 2, Conditions, 3	N/A	<p><i>(4) The dimensions of any HVAC offshore collector stations for the HVAC option forming part of the authorised scheme (excluding towers, helipads, masts and cranes) must not exceed 60 metres in</i></p>

		<i>height when measured from LAT, 75 metres in length and 120 metres in width.</i>
Schedule 10, Part 2, Conditions, 4	<i>(1) The total length of the cables comprising Work No. 1(d) must not exceed 680 kilometres</i>	<i>(1) The total length of the cables comprising Work No. 1(d) must not exceed 680 kilometres for the HVDC option or 350 kilometres for the HVAC option.</i>
Schedule 10, Part 2, Conditions, 4	<i>(2) The total amount of cable protection for the cables comprising Work No. 1(d) must not exceed 3,000 metres³</i>	<i>(2) The total amount of cable protection for the cables comprising Work No. 1(d) must not exceed 3,000 metres³ for the HVDC option or 3,000 metres³ for the HVAC option.</i>
Schedule 10, Part 2, Conditions, 5	<i>(6) The total amount of scour protection for the WTGs and HVDC offshore converter stations forming part of the authorised scheme must not exceed 3.5 kilometres².</i>	<i>(6) The total amount of scour protection for the WTGs and HVAC offshore collector stations forming part of the authorised scheme must not exceed 3.5 kilometres².</i>
Schedule 10, Part 2, Conditions, 9	<i>(8) At least 10 days prior to the commencement of the licensed activities the undertaker must submit and obtain the MMO's approval of an audit sheet covering all aspects of the construction of the authorised scheme. The audit sheet must include details of—</i> <i>(a) loading facilities;</i> <i>(b) vessels;</i> <i>(c) equipment;</i> <i>(d) shipment routes;</i> <i>(e) working schedules;</i> <i>and</i> <i>(f) all components and</i>	<i>(8) The undertaker must report all dropped objects to the MMO using the Dropped Object Procedure Form as soon as reasonably practicable and in any event within 24 hours 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.</i>

*materials to be used
in the construction
of the authorised
scheme.*

Schedule 10, Part 2,
Conditions, 9

*(9) The audit sheet must
be maintained throughout
the construction of the
authorised scheme and
any changes notified
immediately in writing to
the MMO.*

(9) intentionally left blank

Schedule 10, Part 2,
Conditions, 9

*(10) In the event that the
MMO becomes aware that
any of the materials on the
audit sheet cannot be
accounted for it shall
require the undertaker to
carry out a side scan sonar
survey to plot all
obstructions across the
relevant area(s) within the
offshore Order limits where
construction works and
related activities have
been carried out. In the
event that the missing
material is not located, the
survey area may be
extended at the discretion
of the MMO. Local
fishermen shall be invited
to send a representative to
be present during the
survey. Any new
obstructions that the MMO
believes to be associated
with the authorised
scheme must be removed
at the undertaker's
expense.*

(10) intentionally left blank

Schedule 10, Part 2,
Conditions, 11

*(f) only when driven or
part-driven pile
foundations are
proposed to be used as
part of the foundation
installation, a marine
mammal mitigation
protocol in line with*

(f) intentionally left blank

	<i>JNCC guidelines for minimising acoustic disturbance to marine mammals;</i>	
Schedule 10, Part 2, Conditions, 11	<i>(h) ... and in consultation with English Heritage (and, if relevant, Suffolk Coastal District Council) to include</i>	<i>(h) ... and in consultation with Historic England (and, if relevant, Suffolk Coastal District Council) to include</i>
Schedule 10, Part 2, Conditions, 12	<i>(1) ... to be agreed with English Heritage (and, if relevant, Suffolk Coastal District Council).</i>	<i>(1) ... to be agreed with Historic England (and, if relevant, Suffolk Coastal District Council).</i>
Schedule 10, Part 2, Conditions, 12	<i>(2)... by submitting an English Heritage OASIS form with a digital copy of the report.</i>	<i>(2)... by submitting an Historic England OASIS form with a digital copy of the report.</i>
Schedule 10, Part 2, Conditions, Transmission System, 20	N/A	<p>Transmission system</p> <p><i>20. Prior to commencement of construction of the authorised scheme, the undertaker must provide notification to the MMO stating which of the HVAC option or the HVDC option is to be implemented. Only one of the HVAC option or the HVDC option may be constructed pursuant to this licence and this licence does not permit a combination of both the HVAC option and HVDC option.</i></p>
Schedule 10, Part 2, Conditions, Marine Noise Registry, 21	N/A	<p>Marine Noise Registry</p> <p><i>21. – (1) The undertaker must submit information on the expected location, start and end dates of impact pile driving to the Marine Noise Registry, in order to satisfy the ‘Forward Look’ requirements of the Registry, prior to the commencement of the licensed activities. The undertaker must notify the MMO of the</i></p>

		<p><i>successful submission of ‘Forward Look’ data within 7 days of the submission.</i></p> <p><i>(2) The undertaker must submit the exact locations and dates of impact pile driving to the Marine Noise Registry, in order to satisfy the ‘Close out’ requirements of the Registry, at 6 month intervals from the commencement of impact pile driving. The final data must be submitted within 12 weeks of completion of impact pile driving. The undertaker must notify the MMO of the successful submission of ‘Close out’ data within 7 days of the submission.</i></p>
Schedule 11, Part 1, Licensed Marine Activities, 1(1)	N/A	<p><i>“HVAC option” means an offshore and onshore connection from the offshore wind farm to the National Grid Bramford substation by way of a HVAC transmission system;</i></p>
Schedule 11, Part 1, Licensed Marine Activities, 1(1)	N/A	<p><i>“HVDC option” means an offshore and onshore connection from the offshore wind farm to the National Grid Bramford substation by way of a HVDC transmission system;</i></p>
Schedule 11, Part 1, Licensed Marine Activities, 1(1)	<i>“offshore substation” means a HVDC converter station</i>	<p><i>“offshore substation” means a HVDC converter station for the HVDC option or HVAC collector station for the HVAC option;</i></p>
Schedule 11, Part 1, Licensed Marine Activities, 1(1)	<i>“Work No. 3B” means up to four cables and up to eight additional cable ducts laid underground from mean low water at Bawdsey Cliffs to the</i>	<p><i>“Work No. 3B” means up to four HVDC cables for the HVDC option or up to six HVAC cables for the HVAC option and up to eight additional cable ducts laid underground from mean low</i></p>

	<i>cable landfall; and</i>	<i>water at Bawdsey Cliffs to the cable transition jointing bays; and</i>
Schedule 10, Part 1, Licensed Marine Activities, 1(1)(h)	<i>English Heritage Eastgate Court 195-205 High Street Guildford GU1 3EH Tel: 01483 252 057</i>	<i>Historic England The Engine House Fire Fly Avenue Swindon SN2 2EH Tel: 01793 445050</i>
Schedule 11, Part 1, Licensed Marine Activities, 2(2)	<i>Work No. 2 – up to two HVDC offshore converter stations fixed to the seabed within the area shown on the works plan by one of two foundation types (namely jacket foundation or gravity base foundation);</i>	<i>Work No. 2 – up to two HVDC offshore converter stations for the HVDC option or up to two HVAC offshore collector stations for the HVAC option (which may alternatively be constructed under Work No. 1), each fixed to the seabed within the area shown on the works plan by one of two foundation types (namely jacket foundation or gravity base foundation);</i>
Schedule 11, Part 1, Licensed Marine Activities, 2(2)	<i>Work No. 3A – up to four HVDC export cables between Work No. 2 and MHWS consisting of subsea cables along routes within the Order limits seaward of MHWS including one or more cable crossings.</i>	<i>Work No. 3A – up to four HVDC export cables for the HVDC option or up to two HVAC export cables for the HVAC option between Work No.1(b) for the HVAC option or Work No. 2 and MHWS consisting of subsea cables along routes within the Order limits seaward of MHWS including one or more cable crossings.</i>
Schedule 11, Part 2, Conditions, Design Parameters,1	<i>No HVDC offshore converter station forming part of the authorised scheme shall be erected within the areas hatched black on the works plan, whose coordinates are</i>	<i>No HVDC offshore converter station or HVAC collector station forming part of the authorised scheme shall be erected within the areas hatched black on the works plan, whose coordinates are specified below and more</i>

	<i>specified below and more particularly shown on the Order limits boundary coordinates plan—</i>	<i>particularly shown on the Order limits boundary coordinates plan—</i>
Schedule 11, Part 2, Conditions, 2	<i>(1) The total number of HVDC offshore converter stations forming part of the authorised scheme must not exceed 2.</i>	<i>(1) The total number of HVDC offshore converter stations forming part of the authorised scheme must not exceed two for the HVDC option or two HVAC offshore collector stations for the HVAC option (whether constructed under Work No. 1 or Work No. 2).</i>
Schedule 11, Part 2, Conditions, 2	<i>(2) The dimensions of any HVDC offshore converter stations forming part of the authorised scheme (excluding towers, helipads, masts and cranes) must not exceed 60 metres in height when measured from LAT, 75 metres in length and 120 metres in width.</i>	<i>(2) The dimensions of any HVDC offshore converter stations for the HVDC option or HVAC offshore collector stations for the HVAC option forming part of the authorised scheme (excluding towers, helipads, masts and cranes) must not exceed 60 metres in height when measured from LAT, 75 metres in length and 120 metres in width.</i>
Schedule 11, Part 2, Conditions, 3	<i>(1) The total length of the cables comprising Work No. 3A must not exceed 400 kilometres</i>	<i>(1) The total length of the cables comprising Work No. 3A must not exceed 400 kilometres for the HVDC option or 250 kilometres for the HVAC option.</i>
Schedule 11, Part 2, Conditions, 3	<i>(3) The total amount of cable protection for the cables comprising Work No. 3A must not exceed 24,000 metres³.</i>	<i>(2) The total amount of cable protection for the cables comprising Work No. 3A must not exceed 24,000 metres³ for the HVDC option or 15,000 metres³ for the HVAC option.</i>
Schedule 11, Part 2, Conditions, 4	<i>The total amount of scour protection for the HVAC offshore collector stations forming part of the</i>	<i>The total amount of scour protection for the HVDC offshore converter stations forming part of the authorised</i>

	<i>authorised scheme must not exceed 0.029 kilometres².</i>	<i>scheme must not exceed 0.029 kilometres².</i>
Schedule 11, Part 2, Conditions, 8	<p><i>(8) At least 10 days prior to the commencement of the licensed activities the undertaker must submit and obtain the MMO's approval of an audit sheet covering all aspects of the construction of the authorised scheme. The audit sheet must include details of—</i></p> <ul style="list-style-type: none"> <i>(a) loading facilities;</i> <i>(b) vessels;</i> <i>(c) equipment;</i> <i>(d) shipment routes;</i> <i>(e) working schedules; and</i> <i>(f) all components and materials to be used in the construction of the authorised scheme.</i> 	<p><i>(8) The undertaker must report all dropped objects to the MMO using the Dropped Object Procedure Form as soon as reasonably practicable and in any event within 24 hours 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.</i></p>
Schedule 11, Part 2, Conditions, 8	<p><i>(9) The audit sheet must be maintained throughout the construction of the authorised scheme and any changes notified immediately in writing to the MMO.</i></p>	<p><i>(9) intentionally left blank</i></p>
Schedule 11, Part 2, Conditions, 8	<p><i>(10) In the event that the MMO becomes aware that any of the materials on the audit sheet cannot be accounted for it shall require the undertaker to carry out a side scan sonar survey to plot all obstructions across the relevant area(s) within the offshore Order limits where construction works and related activities have been carried out. In the event that the missing</i></p>	<p><i>(10) intentionally left blank</i></p>

material is not located, the survey area may be extended at the discretion of the MMO. Local fishermen shall be invited to send a representative to be present during the survey. Any new obstructions that the MMO believes to be associated with the authorised scheme must be removed at the undertaker's expense.

Schedule 11, Part 2,
Conditions,8

(13) The undertaker must undertake the survey agreed under condition 11(g)(iii) following the high resolution swath bathymetric survey referred to in condition 19(2)(d).

(13) The undertaker must undertake the survey agreed under condition 10(g)(iii) following the high resolution swath bathymetric survey referred to in condition 18(2)(d).

Schedule 11, Part 2,
Conditions,10

(a)(viii) ... pursuant to condition 11(j)

(a)(viii) ... pursuant to condition 10(j)

Schedule 11, Part 2,
Conditions,10

(d)(v) ... pursuant to condition 6

(d)(v) ... pursuant to condition 5

Schedule 11, Part 2,
Conditions,10

(f) only when driven or part-driven pile foundations are proposed to be used as part of the foundation installation, a marine mammal mitigation protocol in line with JNCC guidelines for minimising acoustic disturbance to marine mammals;

(f) intentionally left blank

Schedule 11, Part 2,
Conditions,10

(h) ... and in consultation with English Heritage (and, if relevant, Suffolk Coastal District Council) to include

(h) ... and in consultation with Historic England (and, if relevant, Suffolk Coastal District Council) to include

Schedule 11, Part 2,

(j) ...referred to in condition 17(2)(b)

(j) ... referred to in condition 16(2)(b)

Conditions,10		
Schedule 11, Part 2, Conditions,11	<i>(1) ... to be agreed with English Heritage (and, if relevant, Suffolk Coastal District Council).</i>	<i>(1) ... to be agreed with Historic England (and, if relevant, Suffolk Coastal District Council).</i>
Schedule 11, Part 2, Conditions,11	<i>(2) ... English Heritage</i>	<i>(2) ... Historic England</i>
Schedule 11, Part 2, Conditions,12	<i>(1) ... approved under condition 11</i>	<i>(1) ...approved under condition 10</i>
Schedule 11, Part 2, Conditions,12	<i>(2) ...approved under condition 11 and the licensed activities must be carried out in accordance with the approved plans, protocols, statements, schemes and details approved under condition 11</i>	<i>(2)approved under condition 10 and the licensed activities must be carried out in accordance with the approved plans, protocols, statements, schemes and details approved under condition 10</i>
Schedule 11, Part 2, Conditions,13	<i>...carried out under condition 17(2)(c)</i>	<i>...carried out under condition 16(2)(c)</i>
Schedule 11, Part 2, Conditions,16	<i>(1)...in discharging condition 11(b)(iii)</i>	<i>(1)...in discharging condition 10(b)(iii)</i>
Schedule 11, Part 2, Conditions, Transmission System, 19	N/A	<p>Transmission system</p> <p><i>19. Prior to commencement of construction of the authorised scheme, the undertaker must provide notification to the MMO stating which of the HVAC option or the HVDC option is to be implemented. Only one of the HVAC option or the HVDC option may be constructed pursuant to this licence and this licence does not permit a combination of both the HVAC option and HVDC option.</i></p>
Schedule 11, Part 2, Conditions, Marine	N/A	Marine Noise Registry

20. – (1) *The undertaker must submit information on the expected location, start and end dates of impact pile driving to the Marine Noise Registry, in order to satisfy the ‘Forward Look’ requirements of the Registry, prior to the commencement of the licensed activities. The undertaker must notify the MMO of the successful submission of ‘Forward Look’ data within 7 days of the submission.*

(2) The undertaker must submit the exact locations and dates of impact pile driving to the Marine Noise Registry, in order to satisfy the ‘Close out’ requirements of the Registry, at 6 month intervals from the commencement of impact pile driving. The final data must be submitted within 12 weeks of completion of impact pile driving. The undertaker must notify the MMO of the successful submission of ‘Close out’ data within 7 days of the submission.
