



# Triton Knoll Offshore Wind Farm Limited Triton Knoll Electrical System

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## **Appendix 20: Application Documents Schedule of Amendments**

**Date: 5<sup>th</sup> January 2016**

**Appendix 20 of the Applicant's  
Response to Deadline 4**

Triton Knoll Offshore Wind Farm Limited

## Triton Knoll Electrical System

Appendix 20: Application Documents Schedule of Amendments

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Date: 5<sup>th</sup> January 2016

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## 1. Introduction

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- 1.1 Triton Knoll Offshore Wind Farm Limited (the Applicant) submitted a suite of Outline management plans as part of the Application (document references 8.7 - 8.13). These outline management plans were an indicative form to facilitate discussions with interested parties and the Examining Authority (ExA) on the final content.
- 1.2 Throughout the examination comments on these plans have been encouraged. Comments received from interested parties and the ExA were taken on board and the plans updated as appropriate.
- 1.3 This schedule details the changes that have been made, or are proposed to be made, and directs interested parties and the ExA to the latest version of the plans.

## 2. Schedule of Amendments

Document	Application reference [PINS reference]	Section/paragraph reference	Description of Amendment	Latest version reference
Outline Code of Construction Practice (CoCP)	8.7 [APP-198]	Paragraph 3.23	The Applicant and the LCC highways officers met in November 2015 to further discuss matters relating to traffic management for the proposed development. LCC subsequently requested the following minor amendment to the Outline TMP. Paragraph 3.23 has been amended to clarify that trenchless techniques shall be used at <b>all adopted</b> road crossings rather than just <i>main</i> road crossings, and that "An NRSWA Section 50 licence will be procured for every road crossing for the installation of the apparatus."	Application Submission, document reference 8.7
Outline Construction Method Statement (CMS)	8.7.1 [APP-199]	Paragraph 2.10	Amendments have been made to the Outline CMS following further consultation with the Lincolnshire Wildlife Trust. Paragraph 2.10 which relates to the close proximity of TCCs to important habitats has been amended as follows: "Where a TCC borders on important habitat, <b>the use of signage, fencing and workforce briefings will be used to prevent incursion by construction machinery and the workforce</b> . <del>that will be protected from incursion by construction machinery and workforce through the use of</del>	Appendix 21 of the Applicant's response to Deadline 4

			<del>signage, fencing and workforce briefings."</del>	
		Paragraph 2.36	Paragraph referring to hedgerows has been removed to avoid duplication as this is now covered in the Outline LSEMP (document reference 8.8).	
		Paragraph 2.40 - 2.42 and Appendix 1	Following further consultation with the Lincolnshire Wildlife Trust (LWT) in relation to the Lincolnshire Coastal Grazing Marsh (LCGM) project, the 'LCGM Construction Methodologies' section of the Outline CMS has been updated to reflect the agreements reached on suitable mitigation. Paragraphs 2.41 - 2.43 have been updated to include detail on the areas that have been identified for specific mitigation.	
		Paragraph 2.47 (old paragraph 2.45)	<p>The Applicant has changed the drafting from "<i>within 16m of a drainage work</i>" to "<i>within 9m of a drainage work</i>" to align with amendments made in the drafting of the Protective Provisions in Schedule 8, part 1 of the draft DCO for the Environment Agency and drainage authorities, and to accord with the separation distance agreed through the EIA Evidence Plan process.</p> <p>The Applicant has also corrected an erratum in the same paragraph to include the word 'are' which was missing from the original drafting.                      ("<i>Specified works <b>are</b> any work or operation</i>")</p>	
		Paragraphs 2.52 –	Amendments and deletions made in the 'Restoration and	

		2.53	Reinstatement' section to remove the detail as this is addressed in the Outline Soil Management Plan (SMP) and the Outline Landscape Strategy and Ecological Management Plan (LSEMP); therefore this has removed the duplication of securing this detail. Reference has been added to the Outline LSEMP, reference to the Outline SMP had already been made.	
		Paragraph 3.16	The Applicant has been informed of a Memorial, which demarcates the site of a WWII aircraft crash, that lies approximately 200m from the proposed development boundary; following consultation with the local authorities and the Sibsey Lancaster Memorial Trust the Applicant has committed to maintaining the access to the Memorial across the cable corridor; this will be achieved in a similar manner to the maintained PRow and will be temporarily re-routed within the Order Limits as necessary. A new paragraph has been included at para 3.16 to secure the commitments to maintain access at this point on the cable route.	
		Paragraph 4.8	The description of outline mitigation measures and the construction methodologies for the LCGM Site 1 has been removed from paragraph 4.8, additional text has been added to describe the current status of LCGM mitigation and the LCGM mitigation table has been appended to the Outline CMS to reflect the now agreement position on mitigation (new Appendix 1).	
		Paragraphs 5.3	Amendments have been made to paragraphs 5.4 and 5.6 in the 'Onshore Cable Duct Installation' section of the Outline	

			<p>CMS to address concerns raised by landowners in relation to drainage. Paragraph 5.4 now makes reference to the consideration given to drainage in relation to the granular backfill material to be used to set the cable ducts as follows: "This will aid heat dissipation, <b><i>whilst not affecting drainage as the material will be of similar permeability to the surrounding soils and is designed to remain in-situ (i.e. water movement does not create voids). This will prevent preferential drainage pathways being created (i.e. by providing a more permeable medium), but will still maintain the current level of drainage due to the amount of CBS being small compared to the amount of subsoil in each field.</i></b>"</p>	
		<p>Paragraph 5.5</p>	<p>Additional detail added in relation to onshore cable duct installation as follows:</p> <p>"Where open cut trenches are used for the excavation of the cable route, the following measures will be implemented:</p> <ul style="list-style-type: none"> <li>• <u>Cable ducts will be laid at a minimum depth of 1.2 m below the ground surface in agricultural land.</u></li> <li>• <u>Cables will be buried to a sufficient depth to allow maintenance and repair of drainage systems to be carried out in a safe and controlled manner.</u></li> <li>• <u>Burial depth may be shallower at points where cables transition areas where burial depth is shallower than for agricultural land, such as approaches to substation compounds.</u></li> </ul>	

			<ul style="list-style-type: none"> <li>• Deep excavations may require de-watering. Water pumped or removed from excavations would be passed through a silt-separator tank or equivalent, and discharge to ground or surface water. An environmental permit would be sought from the EA prior to undertaking such operations.</li> <li>• Extended excavations would be arranged so as not to create preferential drainage pathways with the potential to cause flooding of lower land.</li> <li>• Consideration will be given as to whether the inclusion of clay stanks/plugs along trenches will be designed into the cable trench sections to mitigate against the creation of preferential pathways for contaminant migration <u>or drainage.</u>”</li> </ul>	
		(New) Paragraph 5.14, (old) paragraph 5.14 – 5.28	The description of outline mitigation measures and the construction methodologies for the LCGM Sites 2-7 has been removed from (old) paragraphs 5.17 - 5.28, additional text has been added to describe the current status of LCGM mitigation and the LCGM mitigation table has been appended to the Outline CMS to reflect the now agreement position on mitigation (new Appendix 1). Figures of the LCGM sites 2 - 7 have been included as (new) Appendix 2 for clarity.	
Outline Noise and Vibration Management Plan (NVMP)	8.7.3 [APP-101]	Paragraph 3.17	An additional paragraph has been added to the monitoring section of the Outline Noise and Vibration Management Plan in order to secure that standard monitoring procedures will be followed during the construction phase and that monitoring measurements will be sent to the relevant local	Appendix 23 of the Applicant’s response to Deadline 4

			<p>authorities. Additional paragraph included as follows:  <b><i>"Noise levels within construction areas will be monitored as part of the standard monitoring procedures that will be employed to ensure construction plant and equipment is operating within expected parameters, and these measurements will be forwarded on to the Local Authorities on request."</i></b></p>	
Outline Soil Management Plan (SMP)	8.7.5 [APP-103]	Paragraph 1.7	The Applicant has deleted <i>"However, it is anticipated that these works will only involve modifications to the existing infrastructure within the existing site boundary"</i> at the end of paragraph 1.7 in line with the potential alterations at the NGET Bicker Fen substation.	Appendix 25 of the Applicant's response to Deadline 4
		(Old) section 2	The Application version of the Outline SMP provided an overview of the baseline conditions of the soils; this section has been removed as this detail has been accounted for in Volume 5, Annex 5.1 Land Use, Soils and Agriculture Baseline Report (document reference 6.2.5.5.1) on which the impact assessment has been based. The pre-construction surveys, to be carried out in accordance with the stage specific Soil Management Plans will inform the baseline conditions of the soils on a case by case basis in order to ensure that appropriate construction methodologies are undertaken and to ensure reinstatement can be adequately completed to restore soils to their pre-construction characteristics.	
		Section 2, paragraphs 2.1 -2.8	New 'Responsibilities of the Agricultural Liaison officer (ALO)' section added.	

			<p>The Land Interest Group (LIG), including the National Farmers Union (NFU), and some landowners raised issues in relation to the role and responsibilities of the ALO. Subsequently additional information has been added to the Outline SMP in relation to the ALO role. This includes further details of the responsibilities of the ALO and the skills and experience required of the persons who fulfil the role; details of any necessary surveys for which the ALO will assist with liaising with the landowners in relation to; details of the commencement date for the ALO role; and specific details of the engagement the ALO will carry out with the Land Interest Group (or equivalent) and the landowners.</p>	
		Section 2, paragraphs 2.9 - 2.22	<p>Updated ‘Pre-Construction Surveys ‘ section</p> <p>Following further consultation with landowners and the LIG the Applicant has provided greater detail in relation to pre-construction surveys of soils and land conditions. This includes highlighting how the ALO will assist with carrying out any surveys required.</p>	
		Paragraph 3.5	<p>Addition to ‘Timescales and seasonal timing considerations’ section as follows:</p> <p><i>“Normal working operations will not take place on a Sunday”</i></p>	
		Paragraph 3.6	<p>Amendments to paragraph 3.6 in relation to the nominal width of each cable trench as follows:</p> <p>“The nominal width of each cable trench will be <del>10.5</del> m – 2</p>	

			m <u>allowing for safe working, the trench sides may be stepped or battered to reduce the likelihood of collapse.</u> "	
		Paragraph 3.8 - 3.10	Following input from the soils specialist, paragraphs 3.8 – 3.10 have been updated with minor amendments to provide clarity on the process of topsoil stripping.	
		Paragraph 3.11	<p>A new paragraph has been added to the topsoil stripping section to secure that best practice guidance will be followed for the maintenance of soil storage areas throughout the duration of the construction works.</p> <p><i>"Soil storage areas will be maintained in line with Defra best practice guidelines (Defra, 2009). Examples of soils protection measures include:</i></p> <ul style="list-style-type: none"> <li>• <i>Covering of stored soil to prevent weed growth;</i></li> <li>• <i>Sowing of ground cover e.g. dense grass swards</i></li> <li>• <i>Regular strimming of weed growth to prevent seeding;</i></li> <li>• <i>Herbicide applications (pre- or post-emergence); and</i></li> <li>• <i>Mechanical control of weed seedlings."</i></li> </ul>	
		Paragraph 3.12	Paragraph 3.12 has been updated to clarify details of the haul road in relation to the stripped soils. Additions made as follows: "A temporary haul road, <u>(typically 65 m wide) in width,</u> will be constructed within the <u>cable corridor</u> working width <u>on land that has been stripped of topsoil. It is</u> assumed that there will be a requirement to import aggregates to create a stable surface for construction traffic movements. Other options such as bog-matting and geotextiles will also be considered ".	

		<p>Paragraph 3.14</p>	<p>Paragraph 3.14 has been updated to remove “<i>and compacted</i>” as surplus soil material from trench excavation will be spread across the working width prior to topsoil reinstatement, but not compacted as this would damage the soil structure.</p>	
		<p>Paragraphs 3.16 - 3.17</p>	<p>Paragraphs 3.16 - 3.18 on general reinstatement methodology has been amended following input from the soils specialist in order to give clarity on the method for reinstatement. Amendment made as follows:</p> <p>“Disturbed ground will be reinstated with the stored <b>topsoil</b> <del>and</del> subsoil following trenching. If necessary, the subsoil will be ripped prior to <del>topsoil placement if compaction has occurred.</del> <u>Topsoil will be spread in such a way as reinstatement to ensure that it does not become compacted.</u> <u>aid natural structure and drainage.</u></p> <p><u>Topsoil will be replaced above the installed trenches once the High Voltage testing has been successfully completed, in order to return the land to its previous condition as soon as possible. Topsoil will be spread in such a way as to ensure that it does not become compacted.”</u></p>	
		<p>Paragraph 3.26</p>	<p>Deletion of ‘Unlicensed Works at Bicker Fen Substation’ section.</p> <p>The following wording has been <b>deleted</b> from the plan “<i>The Unlicensed Works will take place entirely within the current hard standing footprint of the existing NGET Bicker Fen Substation</i>” in line with the potential alterations at the NGET</p>	

			Bicker Fen substation.	
		Section 4	A section on drainage was previously included in Section 5 of the Outline SMP however, following consultation with the land interest group and the land drainage specialist, greater detail was requested and therefore a new detailed section on drainage (Section 4 Agricultural Land Drainage) has been added to the Outline SMP.	
		Paragraph 5.1	The general soil management section has been updated to clarify details of the way soils will be categorised and stored. Amendments have been made as follows: "All soil handling, <u>placing, compaction, storage, replacement</u> and management will be undertaken in accordance with best practice (DEFRA, 2009)" and "Soils shall be categorised on the basis of their origin, and <u>type/texture, and stockpiled/stored accordingly; topsoils shall be stored separately from subsoils</u> ".	
		(Old) paragraphs 4.3 and 4.4	Paragraph 4.3 and 4.4 in the Application submission version of the Outline SMP secured detail on land drainage. As detailed above a new more detailed section has been added on drainage at (new) section 4.	
		Paragraphs 5.4 - 5.5	Additional commitments added to the soil stripping section, following input from the soils specialist, to ensure that both topsoil and subsoils will be stripped directly to store when in a dry and friable condition, and that field tests will be provided to the contractors to determine when soils are in a suitable moisture condition for stripping. The additional drafting also ensures that multiple handling of topsoil and	

			subsoil will be avoided.	
		Paragraph 5.6	Additional paragraph added to section of the plan relating to the locating of soil stores as follows: "Topsoil may be stored on the existing surface but subsoil will be stored on land that has been stripped of topsoil."	
		Paragraph 5.7	Amendments made to paragraph 5.7 to clarify details on the timing of soil storage as follows:  "Where soil is to be stored for over 6 months it will be <del>covered</del> <u>seeded with a rapid-growing grass</u> to minimise erosion <del>or allowed to re-vegetate naturally to minimise soil run-off.</del> "	
		Paragraph 5.10	Errata identified. Addition of "cultivation" at the end of the sentence as follows: "Topsoil will be prepared and seeded using an appropriate seed mix or returned to arable <b><u>cultivation</u></b> ." Errata identified in "Where there is excess subsoil within the area", amended to "Where there is excess <b><u>subsoil</u></b> within the area".	
		Paragraph 5.11	The addition of a 'Soils Aftercare' section with content as follows:  <i>"At the end of construction soils will be returned in a condition at least equivalent to those recorded in the pre-entry record of condition. It is therefore not anticipated that an aftercare plan over and above the landowners' usual working of the soil will be required. However if there is a loss in crop yield in the areas affected by construction once</i>	

			<i>the land has been reinstated the landowner is protected by the compensation mechanism included in paragraph 4.10 and an investigation will be undertaken into the condition of the soil and appropriate action undertaken to put right any issue. If this is required it will take the form of a post-construction survey of the soils using the same approach as the pre-construction surveys and will include a control sample.”</i>	
Outline Pollution Prevention and Emergency Incident Response Plan (PPEIRP)	8.7.8 [APP-106]	Paragraph 5.38	Paragraph 11.1 of the Relevant Representation submitted by the Environment Agency (EA) in response to consultation under section 56 of the Planning Act 2008 states: “We recommend that this plan identifies details of one or more UK Spill accredited pollution response contractors who the Applicant would be able to contact in the event of a large scale incident.” The Applicant and the EA have been in discussion and it is agreed that an in principle statement should be added to the Outline PPEIRP to say that UK Spill accredited pollution response contractors would be identified and named in the final PPEIRP, in order to be contacted in the event of a large scale incident.  Additional text has been included at paragraph 5.38. Paragraph 4.12 of the SoCG between the Applicant and the EA (Appendix 29 of the Applicant’s response to Deadline 1) confirms agreement to the adequacy of the Outline PPEIRP (as amended).	Appendix 39 of the Applicant’s response to Deadline 1
		Paragraph 5.38	In response to EOn 2.3 of the ExA’s second written questions the Applicant and EA further discussed the	

			<p>inclusion of the paragraph dealing with pollution response contractors. The Applicant and the EA agreed revised wording which clarifies when such a contractor will be contacted. Further updates as follows:</p> <p><i>“Pollution response contractors, accredited by the UK Spill Association (UKSpill), shall be identified and named in the final PPEIRP, such that, should a spill incident occur for which the construction contractors require assistance with containment and clean-up, one of the named pollution response contractors will be contacted.</i></p> <p><i>Spill incidents will be assessed on a case by case basis and a pollution response contractor will be contacted should the Environmental Clerk of Works determine that assistance is necessary.”</i></p>	
<p>Outline Construction Environmental Management Plan (CEMP)</p>	<p>8.7.9 [APP-107]</p>	<p>Paragraphs 2.8 - 2.32</p>	<p>The EA requested in their Written Representation that new requirements be added to the draft DCO to deal with unexpected contamination. Following further consultation with the EA the section on 'Geology and Ground Conditions' in the Outline CEMP has been amended to make clearer distinction of the pre-construction and construction phase investigations that may be required for contaminated land, and to clarify the best practice guidance that will be adopted in those cases. Paragraphs 2.8 - 2.32 of the Outline CEMP have been updated to address the EA's concerns.</p>	<p>Application Submission, document reference 8.7.9</p>

Outline Communications Plan	8.7.10 [APP-108]	Paragraph 1.9	An internal review of the Outline Communications Plan identified an errata in paragraph 1.9; "any <b>part</b> of the TKES" has been amended to "any <b>stage</b> of the TKES"	Application Submission, document reference 8.7.10
		Paragraphs 2.10 - 2.12	<p>During the Issue Specific Hearings held in November 2015 the sequencing of onshore construction works was discussed. Subsequently additions to the draft DCO and the Outline Communications Plan were requested in order to secure the requirement to submit a plan detailing indicative sequencing to the relevant planning authority; notify the public and landowners of the sequencing of the onshore cable works; and communicate any updates made to the sequencing plan throughout the development of the onshore construction works.</p> <p>A "<b>Communication of cable route construction sequence</b>" section has been added to the Outline Communications Plan, which will be used as a mechanism for setting out the strategy through which the authorities, public and landowners affected will be communicated with and formally notified.</p>	
Outline Landscape Strategy and Ecological Management Plan (LSEMP)	8.8 [APP-109]	Paragraphs 6.16 - 6.18 and 6.20	Provision relating to hedgerow crossing has been moved to the LSEMP from the CMS at paragraphs 6.16 - 6.18 and 6.20.	Appendix 27 of the Applicant's response to Deadline 4
		Paragraphs 6.21 - 6.25	Paragraphs 6.16 - 6.21 in the 'Ecological Mitigation Strategy' section of the Outline LSEMP has been updated following discussions in relation to Hedgerows during the	

			<p>issue specific hearings held in November 2015. The additional text provides more detail on the management of hedgerows, including: agreement as facilitation works, prior to commencement of onshore works; timing; role of ECoW; and the use of cut brush.</p>	
		Paragraph 6.26	<p>An additional paragraph has been added as (new) paragraph 6.26 in the 'Ecological Mitigation Strategy' section of the Outline LSEMP to secure the opportunity of enhancement by establishment of wildflower rich grassland at the transition joint bays behind the landfall, which is currently being used for crop production. This enhancement will extend the existing habitat, a part of the Lincolnshire Coastal Country Park. The additional text secures that the final specification of the seed mix and the annual management strategy shall be defined in the Ecological Management Plan for that stage.</p>	
		Paragraphs 6.29	<p>The detail of the mitigation for the LCGM priority sites, which was included in the Application version of the Outline LSEMP at (old) paragraphs 6.18 - 6.24 has been removed from the outline plan. The detail for the mitigation of these sites is now secured through the Outline CMS (Revision B) and therefore paragraph 6.25 has been updated to reference the Outline CMS (Revision B) in order to avoid duplication between the two plans. The mitigation for the LCGM is therefore secured through Requirement 14 of the draft DCO, rather than through Requirement 13 via the Ecological Management Plan. This is the most appropriate mechanism for securing the mitigation as it predominantly</p>	

			relates to mitigation by bespoke construction methodologies.	
		Paragraphs 7.14 - 7.15	Addition of new section on Management and Maintenance of Planting	
Outline Traffic Management Plan (TMP)	8.9 [APP-110]	n/a	The Applicant and the LCC highways officers met in November 2015 to further discuss matters relating to traffic management for the proposed development. LCC subsequently requested the following minor amendments to the Outline TMP.	Application Submission, document reference 8.9
		Paragraph 4.8	Paragraph 4.8 has been amended from "road condition surveys for minor roads will be undertaken and agreed with the Highways Authority" to "road condition surveys for minor roads, B roads and all road crossings will be undertaken and agreed with the Highways Authority".	
		Paragraph 4.14	Paragraph 4.14 has been updated to ensure vehicles both enter and exit temporary construction compounds in a forward gear.	
		Paragraph 4.17	Paragraph 4.17 has been amended to reflect that the details of road crossings, to be set out in the Access Management Plan, will be agreed with the relevant planning authority following consultation with the relevant Highway Authority.	
		Paragraph 4.18	Paragraph 4.18 a new bullet has been added to read " <b>• Appropriate wheel cleansing facilities at access and</b>	

			<b>road crossing points"</b>	
		Paragraph 4.21	Paragraph 4.21 has been amended to reflect that arrangements for temporary works needed to accommodate abnormal loads will be made through processes with the relevant planning authority following consultation with the relevant Highway Authority.	
Outline Onshore WSI	8.11 [APP-111]	Paragraphs 2.41 - 2.42	The Applicant has been informed of a Memorial, which demarcates the site of a WWII aircraft crash, that lies approximately 200m from the proposed development boundary; following consultation with the local authorities and the Sibsey Lancaster Memorial Trust the Applicant has included additional measures within the Outline WSI to ensure that the final WSI for that stage of the onshore works includes appropriate requirements for the unlikely event of encountering remains from the crash within the proposed development boundary. These measures include advance consultation with the MoD to inform that stage specific WSI in order to ensure any relevant licenses are obtained should they be required under the Protection of Military Remains Act 1986.	Application Submission, document reference 8.11
Outline Access Management Plan	8.13 [APP-113]		Paragraph 2.9 will be amended to state "...would be agreed as part of the detailed AMP through consultation with the Highway Authority <b>as part of a section 184 Agreement.</b> "	Application Submission, document reference 8.13